

PHASE III ENVIRONMENTAL SITE ASSESSMENT REPORT

**CITY OF MOBILE
KEEP MOBILE BEAUTIFUL RECYCLING CENTER
1451 GOVERNMENT STREET
MOBILE, ALABAMA 36604**

PPM PROJECT NO. 213430.ESA3

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PHASE III ENVIRONMENTAL SITE ASSESSMENT REPORT
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AT

KEEP MOBILE BEAUTIFUL RECYCLING CENTER
1451 GOVERNMENT STREET
MOBILE, ALABAMA 36604

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1.0 INTRODUCTION

Corporate Environmental Risk Management (CERM) has been retained by the City of Mobile through PPM Consultants, Inc. (PPM) to conduct a Phase III (Subsurface Field Investigation) Environmental Site Assessment (ESA) of a 0.90 acre parcel known as the Keep Mobile Beautiful Recycling Center (KMBRC) located at 1451 Government Street in Mobile, Alabama. The site is currently being considered for redevelopment by the City of Mobile. Prior environmental reports indicate a history of activities at the site that could and/or did contribute to soil or groundwater impact. This Phase III investigation was conducted to investigate whether soil and/or groundwater contamination is present above regulatory standards warranting further action. Field methodology, sampling, and analysis were conducted in accordance with the Site Specific QAPP Addendum 4A, which was approved by the EPA on February 8, 2012.

1.1 BACKGROUND

The subject property is a 0.90 acre site located at 1451 Government Street, Mobile, Mobile County, Alabama 36604. It is currently leased by the City of Mobile and used as the Keep Mobile Beautiful Recycling Center (KMBRC). The site is paved with concrete, with two entrances from Government Street to the north and one entrance from Stocking Street to the east. A Phase I ESA conducted in 2007 indicated that the site was residential until it was developed as a Phillips 66 gas station in 1967 and later as a Big 10 Tire Center from 1977 to 1999. Since 1999 the facility has been operating as KMBRC. The site is located in Township 4 South, Range 1 West as shown in **Figure 1, Site Location/Topographic Map** and **Figure 2, Site Vicinity/Aerial Map** in Appendix A.

1.2 RECOGNIZED ENVIRONMENTAL CONDITIONS

The Alabama Department of Environmental Management (ADEM) conducted a Phase I ESA of the property in July 2007. The Phase I ESA reported the following recognized environmental conditions (RECs) in connection with the property:

Historical use as a service station and tire center. The previous Phase I stated the following: "Based on current available information and past operational history there is a high probability that petroleum contamination exists at the KMBRC. The potential for contamination exists for both the groundwater and soil pathways." ADEM recommended further assessment.

The presence of a historical service station adjacent to the west. Although not mentioned in the conclusions, a July 2007 memo mentions a monitoring well on the vacant lot to the west, which was reportedly a former service station.

ADEM conducted a Phase II ESA of the property in March 2008. The Phase II consisted of the installation and sampling of six temporary groundwater monitoring wells, sampling of one existing monitoring well, and the collection of two soil samples from a single boring location. Three temporary wells were installed in the vicinity of the former pump island and three were installed in the vicinity of a waste oil tank located behind the recycling building. The areas adjacent to the former underground storage tank (UST) pit and hydraulic lifts were not assessed. Groundwater samples were collected from each of these locations. According to the report, because the site was paved the investigation did not plan to collect soil samples; however, due to a free product odor detected during the installation of one well in the vicinity of the waste oil tank, two soil samples were collected. A copy of the map from the Phase II showing temporary well locations is provided in Appendix B. Groundwater samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. One soil sample was analyzed for SVOCs and the other sample from the same borehole was analyzed for metals.

The analytical results indicated that none of the groundwater samples contained constituents above method detection limits (MDLs). SVOCs were also below MDLs. Low levels of total chromium and lead were detected below ADEM Preliminary Screening Values (PSVs). Arsenic was detected in the soil above the PSV; however, the concentration was below background levels detected in Mobile area soils.

Four RECs or Areas of Concern (AOCs) were addressed in this Phase III ESA. The main Area of Concern (AOC) is the former onsite UST pit area and pump islands (AOC 1) on the north side of the property. The chemicals of concern (COCs) associated with the storage and distribution of petroleum fuels are low to medium boiling point hydrocarbons typically found in gasoline and diesel and petroleum products and additives. Petroleum compounds and petroleum compound additives include benzene, toluene, ethylbenzene, total xylenes (collectively BTEX), polynuclear aromatic hydrocarbons (PAHs), methyl tertiary butyl ether (MTBE), ethylene dibromide (EDB), and lead.

The second AOC (AOC 2) is on the south side of the property and consists of a former waste oil tank. The main chemicals of concern associated with a waste oil tank are used oils. Used oil may contain petroleum, solvents, and heavy metals such as arsenic, cadmium, chromium, and lead depending on the waste streams discharged in the UST.

The third AOC (AOC 3) is along the west property boundary due to possible impact from a former auto shop with a historical UST formerly located on the vacant lot adjacent to the west.

The fourth AOC (AOC 4) is the former hydraulic lift area located inside the buildings garage bays. The main chemicals of concern associated with hydraulic lift are used oil and hydraulic fluid. Hydraulic fluid contains medium to high boiling point hydrocarbons in the carbon range of C 15 to C 50. In the past (prior to the 1970s), hydraulic fluids using mineral oils sometimes included such

additives as PCBs to improve the thermal resistance or other properties of the resulting fluids; therefore, this area will also be sampled for the presence of PCBs.

1.3 PURPOSE AND SCOPE

This Phase III ESA has the objective of verifying the presence, if any, of soil and groundwater impact from on and offsite historical usages of petroleum products or hazardous substances identified in the Phase I and II ESAs. Impact is defined as concentrations of chemicals of concern that exceed ADEM PSVs. The Phase III ESA scope of work is also designed to further the delineation of regulated constituents in order to make recommendations for remedial action, if needed. The scope of the Phase III ESA included the following:

- Prepare a site-specific Health and Safety Plan.
- Locate subsurface utilities prior to drilling by contacting the Alabama One Call System and local utilities not under contract to the One-Call service followed by a visual inspection.
- Conduct a ground penetrating radar (GPR) survey on the property to investigate the presence of USTs and other buried anomalies (including septic drain fields, drums, or buried utilities) associated with past historical uses.
- Install 18 soil borings. Collect one grab soil sample from the vadose zone from each boring for laboratory analysis of chemicals of concern associated with the storage and distribution of petroleum fuels and petroleum product additives.
- Convert 9 soil borings into temporary wells and use 1 existing well for the purpose of groundwater sampling. Collect one grab groundwater sample from each temporary well for laboratory analysis of chemicals of concern associated with the storage and distribution of petroleum fuels and petroleum product additives.
- Record latitude and longitude of all sampling locations with a hand-held GPS device.
- Determine groundwater flow direction by surveying the top of casings of the temporary wells and collecting depth to water measurements from each well.
- Containerize Investigation Derived Wastes (IDW) in labeled 55-gallon Department of Transportation (DOT) drums that will be temporarily stored on the site and labeled as non-hazardous drilling residuals.
- Describe any limitations that obstruct or alter the scope of work in the Phase III ESA report.
- Prepare a comprehensive Phase III ESA report.

1.4 DATA EVALUATION

Data considered to be critical in decision-making include the following:

- **Laboratory soil and groundwater results:** The results from the initial soil and groundwater sampling of the proposed soil borings and monitoring wells will be the most critical element that will drive decisions at the subject property. If dissolved hydrocarbons above ADEM PSVs are detected, then secondary assessment phase activities may be necessary to delineate the extent of dissolved hydrocarbons.
- **Groundwater flow direction:** Groundwater flow direction has not been determined for the subject property. All offsite properties that may potentially be RECs have not been identified, but a former UST site may be located adjacent to the west. If groundwater flow is north, east or south, this offsite property would be cross-gradient from the subject property, and thus unlikely to have impacted the subject property. If this is the case, secondary assessment phase activities would be adjusted for this scenario.
- **Evaluation of onsite sources.** Data collection necessary to assess potential impacts from suspected onsite sources of petroleum products and hazardous substances is critical. Data indicating impacts to the property from onsite sources will have a direct bearing on the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability, environmental business risk, future usage, property value, and remediation requirements of the property.
- **Spatial mapping of data points.** The latitude and longitude of all sampling locations will be recorded with a hand-held GPS device and will be plotted on site map. This data is considered critical to the interpretation of analytical data and the estimation of potential remedial costs.

Data considered to be non-critical in decision-making include the following:

- **Evaluation of offsite sources.**
- **Method Detection Limits greater than PSVs.**
- **Groundwater analysis for metals.** Metals and PAH analysis are both susceptible to being skewed high by sample turbidity (i.e. water sample includes metals or chemicals that are a component of or absorbed to soils artificially suspended in the well water). This potential is a challenge posed to the quality and interpretation of groundwater samples collected from undeveloped temporary wells. Turbidity's effect on metals can be partially mitigated by the filtering of groundwater samples; however, filtering will not equally improve sample quality for all metals. Many metals, such as lead, arsenic, chromium, and barium, will also be naturally occurring to Gulf Coast soils. Because it will be difficult to interpret metals results for groundwater, all groundwater analysis will exclude metals. Metals groundwater data is considered non-critical. Conversely, PAHs are not expected to be naturally occurring to this

subsurface environment; therefore, their presence in groundwater will be an indicator of impact from anthropogenic sources. PAH groundwater data is considered critical.

- **Metal concentrations in soil greater than PSVs.** In addition to being COPCs, many of the Resource Conservation and Recovery Act (RCRA) metals are also naturally occurring to soil in the Mobile area. Metal concentrations in soil that exceed PSVs are not critical. In addition to PSVs, metals data will also be compared to available background data such as *United States Geological Survey Professional Paper 1270* (Shacklette & Boerngen, 1984) and data collected by PPM in the Mobile area over the years. In this long-settled urban setting it is also likely that metals such as arsenic and lead (and PAHs such as benzo(a)pyrene) will have elevated urban background concentrations. Mobile-specific or general literature on this topic may also be utilized in the evaluation of metals and PAHs.
- **Field screening data.** Field screening results are not considered critical with regard to quantifying site conditions; however, field screening results are important in the selection of soil samples for laboratory analysis. Soil sample selection hierarchy will be based on: (1) the highest headspace result; (2) the observation of foreign material in the soil (e.g. staining or debris); (3) or if no obvious impact is observed, immediately above the groundwater interface.

2.0 PHYSICAL SETTING

2.1 LOCAL GEOLOGY

The property is located within the Coastal Lowland Region of the East Gulf Coastal Plain Physiographic Province. This area is characterized by flat to gently undulating, locally swampy terrain underlain by terriginous deposits of recent (Holocene) and late Pleistocene and/or Quaternary age. The Quaternary deposits generally consist of very fine to coarse sands that may be gravelly and sometimes are interbedded with sandy clays. These deposits range in thickness from less than 1 foot to 200 feet. The Quaternary deposits overlie the Citronelle Formation (Pliocene) and undifferentiated Miocene deposits. These deposits are characterized by orange and red, very fine to coarse-grained sandy clay or clayey sand and range from a few hundred to a few thousand feet in thickness.

2.2 LOCAL HYDROGEOLOGY

The alluvial-coastal aquifer which underlies the site is one of the two major aquifers in the area. The alluvial-coastal aquifer is within the Quaternary-aged deposits and overlies and is hydraulically connected to the other major aquifer, the Pliocene-Miocene aquifer. Due to high soil permeabilities and the discontinuous nature of clay lenses within these deposits, the alluvial-coastal and Pliocene-Miocene aquifers act as a single hydrologic unit. The highest yielding wells in the alluvial-coastal

aquifer (up to 10 gallons per minute) are those completed in sands and gravels of coastal deposits and buried river channels. The depth to groundwater within the alluvial-coastal aquifer is generally encountered at shallow depths of less than 20 feet below ground surface (BGS).

Groundwater within the alluvial-coastal aquifer is under unconfined conditions and aquifer recharge results directly from rainfall. Rainfall in the area averages nearly 62 inches per year. The USGS Topographic Map (Figure 1) shows the property to have an approximate elevation of 10 feet above mean sea level in an area that is flat and slopes marginally to the southeast. Based on the relative elevation of the Mobile River to the east, depth to groundwater is estimated to be between 5 and 10 feet BGS. In general, the direction groundwater migration should mimic surface topography.

2.3 BACKGROUND SOIL CONSTITUENTS

Soil samples collected during this Phase III ESA were analyzed for the eight RCRA metals arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver. Background statistics for each of these metals were obtained from *United States Geological Survey Professional Paper 1270* for the eastern United States and soil data collected by PPM in coastal counties of Mobile, Baldwin, and Monroe, Alabama, and Escambia, Florida that were interpreted to be naturally occurring. This data is provided in Table 1, Regional Background Metals Data, in Appendix B.

3.0 FIELD METHODOLOGY

Field activities for the Phase III ESA were conducted on May 17, 18, 21, & 22, 2012. Unless otherwise stated, field activities were conducted in accordance with the Site Specific QAPP Addendum 4A.

3.1 VISUAL INSPECTION

The Alabama One Call System and local utilities were contacted prior to mobilization for identification of subsurface utility locations. Prior to commencing soil boring activities, a visual inspection of the site was also conducted to identify marked and possible unmarked utilities and make any adjustments needed in drilling locations.

3.2 GPR SURVEY

On May 14, 2012, a GPR survey was performed by Pensacola Testing Laboratories, Inc. The GPR survey was primarily performed to investigate the presence of buried USTs along with other subsurface anomalies of potential concern. The survey was performed using a Noggin 250 unit towed by hand across the site along parallel grid lines oriented north-south and west-east and

spaced approximately 5-10 feet apart. Data was collected at regular intervals along the survey lines and was used to develop a subsurface profile. The approximate depth of penetration for the survey was 8 ft-bgs. The subsurface profile data was used to interpret conductivity variances in the soils and subsurface materials indicative of presumed features present underground.

The results from the GPR survey identified the presence of a total of four suspected UST pits in AOCs 1 and 2. Two subsurface anomalies were identified perpendicular to suspected UST 4 in AOC 2. According to the GPR technician the anomalies are suspected to be transmission lines from the suspected UST pit 4. Further details are provided in **Figure 4, Soil and Groundwater Sample Locations and Analytical Results / GPR Survey Results/ AOC Location Map**, located in Appendix A and the GPR Survey included in Appendix G of the report.

3.2 SAMPLING LOCATIONS

A total of 18 soil borings were advanced during the assessment. Boring locations were selected based on the locations of site features and information from the Phase I and II ESA and the GPR Survey. CERM used a non-statistical (judgment-based) approach to the sampling design since there was data available from previous investigations and areas of potential concern were identified as presented in **Section 1.2**. The sampling locations for each AOC and rationale for their selection are presented below:

- **AOC 1:** The results from the GPR survey identified the presence of three suspected USTs pits. The two larger suspected UST pits are located west of the two pump islands and north of the covered recycling bay area. The third suspected UST pit is located on the northwest end of the covered recycling bay. All three USTs are located in the northwest quadrant of the property. A total of nine soil borings (PB-1 through PB-5, PB-9 through PB-12) were installed in this area to assess the potential impact from the onsite USTs. Based upon highest headspace readings, 5 of these soil borings were converted to temporary wells (TW-1, TW-2, TW-4, TW-5 and TW-10).
- **AOC 2:** Four soil borings (PB-13 through PB-16) were installed to assess the potential impact from the suspected UST pit discovered through the GPR Survey. The UST was located on the south side of the covered recycling area that's adjacent to the main

Soil Boring Location	Well Location	AOC
PB-1	TW-1	1
PB-2		
PB-3	TW-3	
PB-4	TW-10	
PB-5		
PB-6	PB-6 (Existing Well)	3
PB-7		
PB-8	TW-3	
PB-9	TW-4	1
PB-10		
PB-11		
PB-12	TW-5	
PB-13		2
PB-14		
PB-15		
PB-16		4
PB-17	TW-7	
PB-18	TW-8	
PB-19	TW-9	

building with the garage bays. None of these soils boring were converted to temporary wells. Two subsurface anomalies were identified perpendicular to suspected UST 4 in AOC 2. According the GPR technician the anomalies are suspected to be transmission lines from the suspected UST pit 4.

- **AOC 3:** Three soil borings and one temporary well (PB-6, PB-7, PB-8 and TW-3) were installed along the west property boundary due to possible impact from a former auto shop, with a historical UST, located on the vacant lot adjacent to the west. An existing well was used as PB-6 instead of installing a temporary well at PB-6. Installing a well at PB-6 would have been redundant with an existing well so close to where it was initially proposed.
- **AOC 4:** Three soil borings and temporary wells (PB-17, PB-18, PB-19, and TW-7, TW-8, TW-9) were installed in the former hydraulic lift area located inside the three main building garage bays to assess the potential impact hydraulic and PCBs to soil and groundwater.

The soil boring/temporary well and subsequent AOCs locations are shown in **Figure 4, Soil and Groundwater Sample Locations and Analytical Results / GPR Survey Results/ AOC Location Map**, located in Appendix A.

3.3 SOIL SAMPLING

Soil borings PB-1 through PB-19 (excluding PB-6 which was replaced by an existing well) were installed at the site on May 17 and 18, 2012 using direct push technology (DPT). Prior to drilling, boring locations were "cleared" using a hand auger to depths of approximately 4.0 feet BGS to prevent accidental damage to unmarked underground utilities. Borings were then sampled continuously from the surface to total depth using macro-core samplers containing sterile, disposable acetate liners. Site geology was characterized by the visual inspection of soil cores collected during the advancement of soil borings. The soils encountered were described in general accordance with the Unified Soil Classification System (USCS). Soil borings were advanced to a total depth of approximately 12 feet BGS or the depth where groundwater was first encountered. Detailed descriptions of the soils encountered during this investigation are included on the boring logs/monitoring well diagrams included in **Appendix D, Geologic Boring Logs**.

After visual inspection and logging, soil samples were collected from the soil cores for field head space screening and possible selection for laboratory analysis. The portion selected for head space screening was placed in a mason-style jar with a temporary foil cover where it was allowed to volatilize in direct sunlight for a minimum of 15 minutes. The sample portions selected for possible laboratory analysis were placed in labeled laboratory vials or jars and were stored on ice in a cooler. Headspace readings were obtained by inserting the probe tip of a photo-ionization detector (PID) through the aluminum foil and recording a reading. After each measurement, the instrument was

allowed to return to background concentrations in the ambient air. The PID was calibrated each morning of the investigation in accordance with the manufacturer's specifications. The PID calibration log is provided in **Appendix E, Field Forms**. Screening results are included on the **Geologic Boring Logs, Appendix D**.

One grab soil sample was collected from the vadose zone of each boring for laboratory analysis. Soil sample selection hierarchy was based on: (1) the highest headspace result; (2) the observation of foreign material in the soil (e.g. staining or debris); (3) or if no obvious impact is observed, immediately above the soil-groundwater interface. Grab soil samples were placed in pre-weighed vials and sterile 4 oz. glass jars provided by the analytical laboratory and were stored on ice prior to shipment to the laboratory. Disposable nitrile gloves were worn during the sample collection and changed after each sample was collected to limit cross-contamination.

3.4 GROUNDWATER SAMPLING

CERM collected groundwater samples on May 21 and 22, 2012. The table on the right illustrates the relation of the soil borings to the temporary well location and their corresponding AOC.

Grab groundwater samples were collected from the top of the saturated zone by the installation of temporary monitoring wells in selected soil borings. Temporary wells were constructed using 5-foot long, 1-inch outer diameter, 0.010-inch factory slotted PVC screen with sufficient 1-inch outer diameter PVC riser to extend to the ground surface. With sufficient recharge, groundwater samples were collected immediately after well installation or the wells were allowed to stand overnight to allow for enough recharge to collect groundwater samples. Groundwater samples were collected using a peristaltic pump under low flow conditions. Fast recharge wells were purged until the produced water was reasonably clear of fines. Slow recharge wells were sampled immediately. Disposable nitrile gloves were worn during the sample collection and changed after each sample was collected. Each sample will be transferred from the sampling device into their respective laboratory-prepared containers and immediately placed on ice. Groundwater samples, along with chain of custody records were delivered to an independent testing laboratory for analysis.

3.5 GROUNDWATER ELEVATION SURVEY

After sample collection, groundwater levels in the temporary wells were allowed to stabilize before depth to water measurements was recorded using an interface probe. The site groundwater flow direction was determined through a groundwater elevation survey. Elevations were obtained from the top of the monitoring well casing using conventional survey equipment. The top of casing elevation was based on an arbitrary benchmark located on-site. Groundwater depths were measured from the same point on the monitoring well casing from which the elevation was obtained (north side

of casing). After collection of the specified data, the temporary wells were plugged with bentonite and finished with concrete at locations of pavement penetrations.

3.6 LABORATORY ANALYSIS

Soil and groundwater samples were shipped to Test America Laboratories-Pensacola (TAL Pensacola) located at 3355 McLemore Drive in Pensacola, Florida. Laboratory analysis was tailored to the chemicals of potential concern (COPC) likely to be associated with the RECs. COPCs for petroleum-related activities, including USTs, are BTEX, MTBE and PAHs. COPCs for the hydraulic lifts located in the main building are VOCs, SVOCs, PCBs and the eight Resource Conservation and Recovery Act (RCRA) Metals.

Soil samples from the vadose zone and groundwater samples collected in AOC 1 were analyzed for PAHs per EPA Method 8270 (subset of SVOCs) and BTEX and MTBE per Method 8260B.

Soil samples collected in AOC 2 were analyzed for VOCs per EPA Method 8260B, PAHs per EPA Method 8270 and eight RCRA Metals per EPA Method 6010 and 7471A (mercury).

Soil and groundwater samples collected in AOC 3 were analyzed for VOCs per EPA Method 8260B, PAHs per EPA Method 8270 and eight RCRA Metals per EPA Method 6010 and 7471A (mercury).

Soil samples collected in AOC 4 were analyzed for SVOCs per EPA Method 8270, for the eight RCRA Metals per EPA Method 6010 and 7471A (mercury) and for PCBs per EPA Method 8082. Groundwater samples in AOC 4 were analyzed for SVOCs and PCBs per EPA Methods 8270 and 8082 respectively.

Metals analysis is susceptible to being skewed high by turbidity of groundwater samples (i.e. water sample may include metals that are a natural component of soils artificially suspended in the well water). This potential is a challenge posed to the quality and interpretation of groundwater samples collected from undeveloped temporary wells. Turbidity's effect on metals can be partially mitigated by the filtering of groundwater samples; however, filtering will not equally improve sample quality for all metals. Many metals, such as lead, arsenic, chromium, and barium, are naturally occurring to Gulf Coast soils. Because it will be difficult to interpret metals results for groundwater collected from temporary wells, the groundwater analysis excluded metals.

Quality Assurance/Quality Control (QA/QC) samples were collected for soil and groundwater during sampling activities. For soil, one duplicate soil sample and one soil sampling equipment rinsate blank was collected for every 10 samples collected, one field blank was collected per day, and one trip blank was included with each cooler. For groundwater, one duplicate groundwater sample one

field blank was collected per day, and one trip blank sample and one trip blank was included with each cooler. QA/QC samples were analyzed for VOCs per EPA Method 8260B.

3.7 SCOPE DEVIATIONS

Minor scope modifications were performed in the field during the completion of this study. As previously mentioned a groundwater samples was collected from an existing well identified onsite and referred to as PB-6. This well was also surveyed and utilized to assist in groundwater flow determination.

Borings PB-1/TW-1 and PB-2 were moved to the east end of the former pump islands to assess the potential presence of COCs from suspected USTs or anomalies interpreted to be former or current USTs during the GPR survey. PB-3 and PB-4 were moved closer to the eastern property boundary to assess the potential presence of COCs from the UST discovered during the GPR survey. Both of these changes occurred in AOC 1. PB-6 was changed to an existing well located on the northwest corner of the property. The final location of all of the sampling adjustments is shown in **Figure 3, Site and Groundwater Potentiometric Map located in Appendix A**.

4.0 FINDINGS

4.1 SITE GEOLOGY AND GROUNDWATER OCCURENCE

Near surface soils consist of brown, gray, or orange Sandy Clay (CL) from beneath the surface to the terminal depths of the borings. Detailed descriptions of the soils encountered during this investigation are included on the boring logs/monitoring well diagrams included in **Appendix C, Geologic Boring Logs**. Near surface soils are consistent with alluvium and/or fill soils.

Initial saturated conditions encountered at depths ranging from 8.0 to 10.0 feet BGS in the soil samples. Static groundwater depths in the nine temporary monitoring wells ranged from 4 to 8 feet BGS. The relatively wide variation in depth to groundwater found in alluvium/fill materials beneath a relatively flat site and surrounding area is indicative of perched, discontinuous, saturated intervals. Apart from perched conditions, the water-bearing zone appears to be unconfined. The predicted groundwater flow direction across the site on May 22, 2012 was determined to be toward the east as shown in **Figure 3, Site and Groundwater Potentiometric Map located in Appendix A**.

4.2 SOIL ANALYTICAL RESULTS

The VOCs detected in soil at concentrations above MDLs were:

- PB-1: ethylbenzene and naphthalene detected at a concentrations of 4.3 parts per million (ppm) and 0.94 ppm, respectively.

- PB-2: naphthalene detected at concentrations of 0.046 ppm.
- PB-7: naphthalene detected at concentrations of 0.097 ppm
- PB-13: acetone was detected at 0.052 ppm.

The SVOCs detected in soil at concentrations above MDLs were:

- PB-1: acenaphthene detected at a concentration of 0.062 ppm, fluoranthene (0.065 ppm), phenanthrene (0.10 ppm), pyrene (0.073 ppm), 1-methylnaphthalene (2.7 ppm), and 2-methylnaphthalene (4.1 ppm).
- PB-3: benzo[a]anthracene (0.048 ppm), benzo[a]pyrene (0.040 ppm), benzo[g,h,i]perylene (0.049 ppm), benzo[k]fluoranthene (0.048 ppm), chrysene (0.050 ppm), dibenz(a,h)anthracene (0.21 ppm), and indeno[1,2,3-cd]pyrene (0.047 ppm).
- PB-7: 2-methylnaphthalene detected at a concentration of 0.071 ppm.
- PB-19: fluoranthene (0.050 ppm) and 2-methylnaphthalene (0.061 ppm).

A review of ADEM PSVs, using values protective of groundwater assuming a small source, indicates that naphthalene, ethylbenzene, 2-methylnaphthalene, and dibenz(a,h)-anthracene exceed their respective standards. All of the constituents detected are indicative of low to high boiling point hydrocarbons commonly found in petroleum fuels and hydraulic fluids.

In addition to VOCs and SVOCs, PCBs were analyzed in samples PB-17, 18, and 19. All samples were below MDLs.

The Metals detected in soil at concentrations above MDLs were:

- PB-13: arsenic (3.3 ppm), barium (16 ppm), chromium (11 ppm), lead (6.2 ppm), and mercury (0.013 ppm).
- PB-14: arsenic (1.1 ppm), barium (14 ppm), chromium (5.7 ppm), and lead (4 ppm).
- PB-15: arsenic (0.93 ppm), barium (13 ppm), chromium (5.8 ppm), and lead (4.2 ppm).
- PB-16: arsenic (0.86 ppm), barium (9.2 ppm), chromium (6.1 ppm), and lead (3.5 ppm).
- PB-17: arsenic (0.93 ppm), barium (11 ppm), chromium (6.4 ppm), and lead (4.2 ppm).
- PB-18: arsenic (1.7 ppm), barium (12 ppm), chromium (8.4 ppm), lead (14 ppm) and mercury (0.13 ppm).
- PB-19: arsenic (1.9 ppm), barium (15 ppm), chromium (9 ppm), lead (24 ppm), and mercury (0.037 ppm).

Arsenic is the only metal exceeding a PSV. Chromium detections are all assumed to be Chromium III based on the lack of historical documentation identifying metal plating operations and absence of green coloration in soils distinctive of Chromium IV.

Soil sample analytical results are summarized in **Table 3, Soil Analytical Summary**, in **Appendix B, Tables** and illustrated in **Figure 5, Soil Sample Locations and Analytical Results**, **Appendix A, Figures**. Copies of the analytical reports are included in **Appendix F, Analytical Reports**.

4.3 GROUNDWATER ANALYTICAL RESULTS

The VOC detected in groundwater at concentrations above MDLs were:

- TW-1 (AOC-1): benzene (4.2 ppm), ethylbenzene (11 ppm), and naphthalene (25 ppm).
- TW-8 (AOC-4): naphthalene (0.33 ppm).

The SVOCs/PAHs detected in groundwater at concentrations above MDLs were:

- TW-1: 1-methylnaphthalene (9.2 ppm) and 2-methylnaphthalene (13 ppm).

In addition, PCBs were analyzed in samples TW-7, TW-8, and TW-9 and all samples were observed to be below MDLs. None of the groundwater samples were analyzed for metals as previously mentioned.

TW-1 and TW-8 were collected from AOCs 1 and 4, respectively, and had exceedances above their PSVs for dissolved benzene, ethylbenzene, and naphthalene. All of the VOCs and PAHs detected are attributed to petroleum fuel products or hydraulic oils.

Groundwater sample analytical results are summarized in **Table 4, Groundwater Analytical Summary**, **Appendix B, Tables** and illustrated in **Figure 4, Soil and Groundwater Sample Locations and Analytical Results / PGR Survey Results / AOC Locations Map**, located in **Appendix A**, Copies of the analytical reports are included in **Appendix F, Analytical Reports**.

4.4 QA/QC

All QA/QC samples were analyzed for VOCs. VOCs were not detected in the trip blanks samples. The duplicate groundwater sample was collected from temporary monitoring well TW-6. There were no VOCs detected in the sample or duplicate from TW-6. The duplicate soil sample was collected from soil boring PB-4 and PB-9. There were no VOCs detected in the sample or duplicate from PB-4 and PB-9.

5.0 Conclusions

The following conclusions are based on the results of previous investigations, field observations, and specific laboratory analysis:

The results from the GPR survey identified the presence of a total of four suspected UST pits in AOC 1 (UST pits 1-3) and AOC 2 (UST 4) and two subsurface anomalies perpendicular to suspected UST pit 4 in AOC 2. According to the GPR technician the anomalies are suspected to be transmission lines from the suspected UST pit 4. To further organize the Phase III ESA sampling event on-site, RECs were designated as AOCs 1-4. A summary of the investigation performed and associated findings for each AOC is provided below.

AOC 1: A total of nine soil borings (PB-1 through PB-5, PB-9 through PB-12) were installed in this area to assess the potential impact from the onsite USTs in the fuel dispensing area north of the building. Five of these soil borings were converted to temporary wells (TW-1, TW-2, TW-4, TW-5 and TW-10).

- The VOCs detected in soil at concentrations above MDLs were PB-1: ethylbenzene and naphthalene detected at concentrations of 4.3 parts per million (ppm) and 0.94 ppm, respectively; and PB-2: naphthalene detected at concentrations of 0.046 ppm. All concentrations detected exceed PSVs Protective of Groundwater.
- The PAHs detected in soil at concentrations above MDLs were PB-1; acenaphthene detected at a concentration of 0.062 ppm, fluoranthene (0.065 ppm), phenanthrene (0.10 ppm), pyrene (0.073 ppm), 1-methylnaphthalene (2.7 ppm), and 2-methylnaphthalene (4.1 ppm); and PB-3; benzo[a]anthracene (0.048 ppm), benzo[a]pyrene (0.040 ppm), benzo[g,h,i]perylene (0.049 ppm), benzo[k]fluoranthene (0.048 ppm), chrysene (0.050 ppm), dibenz(a,h)anthracene (0.21 ppm), and indeno[1,2,3-cd]pyrene (0.047 ppm). The only PAHs exceeding PSVs were 1-methylnaphthalene, 2-methylnaphthalene and dibenz(a,h)anthracene.
- The VOCs detected in groundwater at concentrations above MDLs in TW-1 were benzene (4.2 ppm), ethylbenzene (11 ppm), and naphthalene (25 ppm), which exceeded their respective PSVs of 0.05 ppm, 0.700 ppm, and 0.0062 ppm.
- The PAHs detected in groundwater at concentrations above MDLs or PQLs were TW-1; 1-methylnaphthalene (9.2 ppm) and 2-methylnaphthalene (13 ppm). All concentrations detected exceed PSVs.

The detection of constituents found in AOC 1 coupled with the presence of three USTs pits identified by the GPR survey indicates a probable gasoline petroleum release. The primary impact to soil and groundwater is in the vicinity of UST Pit 1.

AOC 2: Four soil borings (PB-13 through PB-16) were installed to assess the potential impact from the suspected waste oil UST discovered through the GPR Survey. The suspected UST pit is located on the south side of the covered recycling area that's adjacent to the main building with the garage bays. None of these soils boring were converted to temporary wells

- The only VOC detected in soil at concentrations above MDLs was acetone (0.052 ppm) at PB-13 , which was below the PSV.
- The Metals detected in soil at concentrations above MDLs for PB-13 were arsenic (3.3 ppm), barium (16 ppm), chromium (11 ppm), lead (6.2 ppm), and mercury (0.013 ppm); PB-14: arsenic (1.1ppm), barium (14 ppm), chromium (5.7 ppm), and lead (4 ppm); PB-15: arsenic (0.93 ppm), barium (13 ppm), chromium (5.8 ppm), and lead (4.2 ppm) and; PB-16: arsenic (0.86 ppm), barium (9.2 ppm), chromium (6.1 ppm), and lead (3.5 ppm). The only metal constituent exceeding a PSV was arsenic.
- Soil samples collected in AOC 2 had no detection of PAHs at concentrations above the MDLs.

Although arsenic exceeds its PSV, based on an understanding of background soil conditions, all of the metals detections, including arsenic, are attributed to naturally occurring conditions versus a contaminant release.

AOC 3: Three soil borings and one temporary well (PB-6, PB-7, PB-8 and TW-3) were installed along the west property boundary to assess possible impact from a former auto shop, with a historical UST, located on the vacant lot adjacent to the west. An existing well (PB-6) was at the northwest corner of the property was also sampled.

- The only VOC detected in soil at concentrations above MDLs was naphthalene detected at concentrations of 0.097 ppm at PB-7. This concentration exceeds the PSV Protective of Groundwater (0.00203 ppm).
- The only PAH detected in soil at concentrations above MDLs was 2-methylnaphthalene detected at a concentration of 0.071 ppm at PB-7, below the PSV.

Although PB-7 was installed along the property boundary, the presence of naphthalene and 2-methylnaphthalene in soil at this location is not expected to have migrated from the adjoining

property. Instead, the presence of the constituents found in AOC 3 are consistent with concentrations of petroleum compounds detected in the wells near the USTs, indicating that the source may be the former on-site UST system. The absence of VOCs or PAHs in groundwater samples collected from TW-6 and TW-3, indicates there is no impact to the subject property from the adjoining property use.

AOC 4: Three soil borings and temporary wells (PB-17, PB-18, PB-19, and TW-7, TW-8, TW-9) were installed in the former hydraulic lift area located inside the main building garage bays to assess the potential subsurface impact of hydraulic oil and PCBs.

- PAHs were detected in soil at concentrations above MDLs and included fluoranthene (0.050 ppm) and 2-methylnaphthalene (0.061 ppm) at PB-19 installed near the easternmost hydraulic lift. Both of these detections are below PSVs.
- The Metals detected in soil at concentrations above MDLs for PB-17 were arsenic (0.93 ppm), barium (11 ppm), chromium (6.4 ppm), and lead (4.2 ppm); PB-18 were arsenic (1.7 ppm), barium (12 ppm), chromium (8.4 ppm), lead (14 ppm) and mercury (0.13 ppm) and; PB-19 were arsenic (1.9 ppm), barium (15 ppm), chromium (9 ppm), lead (24 ppm), and mercury (0.037 ppm). The only metal constituent exceeding a PSV was arsenic. These metals results remain consistent with reported naturally occurring conditions.
- The only VOC detected in groundwater above the MDL was naphthalene (0.33 mg/L) at TW-8. This concentration exceeded the PSV or 0.00062 ppm. TW-8 was installed near the center lift.
- PCBs were not detected above MDLs in soil and groundwater samples.

The presence of the PAH and VOC constituents in AOC 4 suggest either a petroleum fuel source from the on-site UST systems or a release of hydraulic oil from the former lift system.

6.0 Recommendations

Based on the findings and conclusions of this investigation, CERM does not recommend additional subsurface assessment at this time. However, since petroleum-related COCs were detected in soil and groundwater at concentrations above PSVs, PPM recommends that the findings of this Phase III ESA be submitted to ADEM for review and comment.

PPM also recommends that remedial alternatives for the impact to soil and groundwater be presented in an Analysis of Brownfields Cleanup Alternatives (ABCAs).

APPENDICES

APPENDIX A – FIGURES

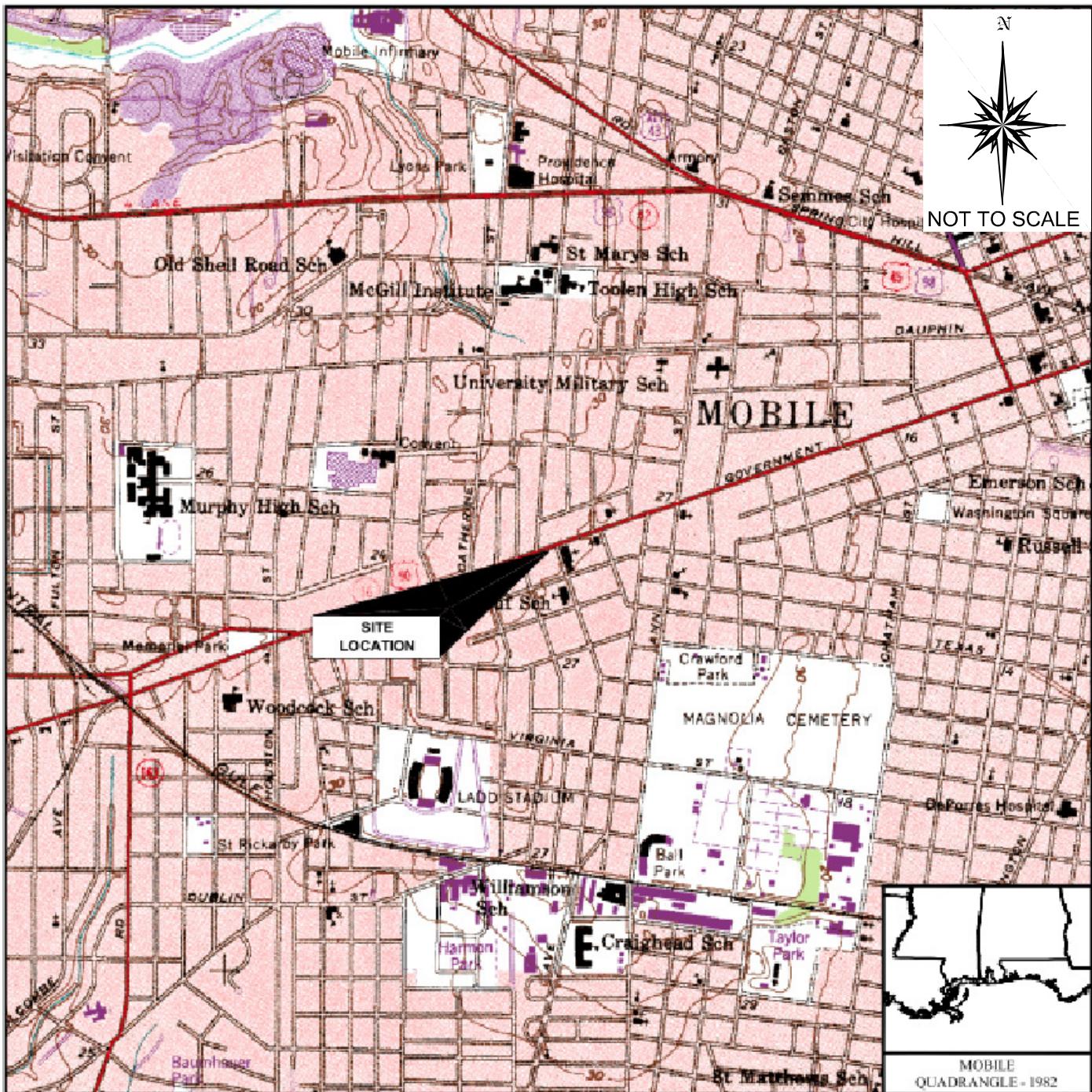


FIGURE 1
SITE LOCATION / TOPO MAP

DATE: 06/27/2012
PROJECT #: 11-1234-009
SCALE: NTS
SHEET NO.:
1



Tel: 678.999.0173
Fax: 678.999.0186
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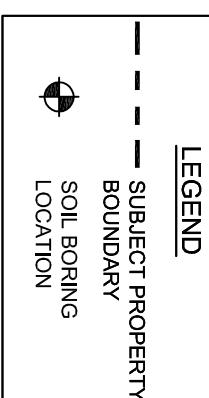
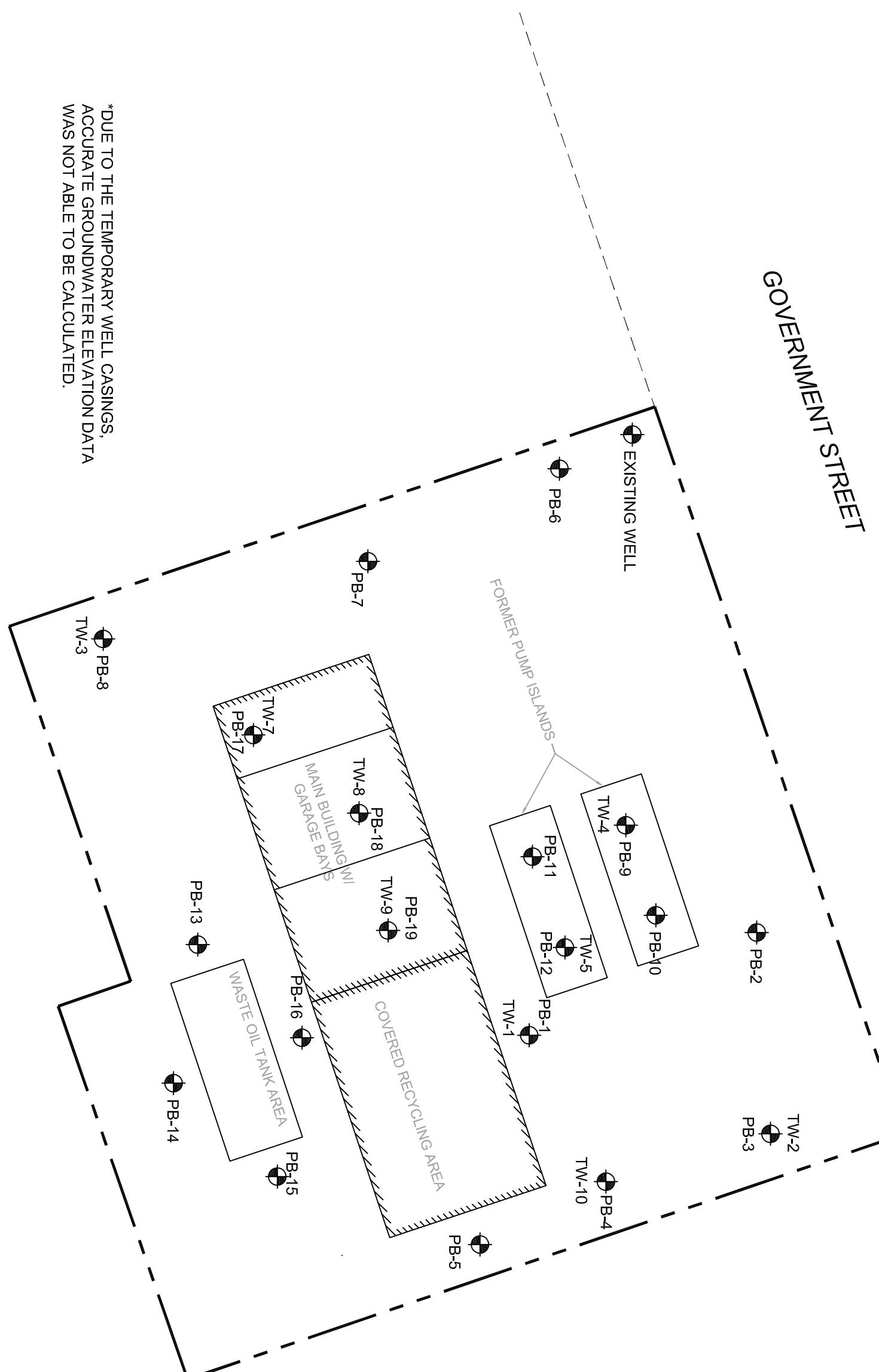
CORPORATE ENVIRONMENTAL RISK MANAGEMENT
2296 Henderson Mill Rd. Suite 200 . Atlanta, Georgia 30345

FIGURE 2 - SITE VICINITY / AERIAL MAP

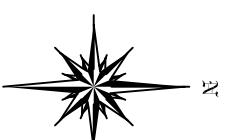
CITY OF MOBILE
KEEP MOBILE BEAUTIFUL RECYCLING CENTER
1451 GOVERNMENT STREET
MOBILE, ALABAMA

DATE: 06/27/2012
PROJECT #: 11-1234-009
NOT TO SCALE
SHEET NO.: 1

*DUE TO THE TEMPORARY WELL CASINGS,
ACCURATE GROUNDWATER ELEVATION DATA
WAS NOT ABLE TO BE CALCULATED.



NOT TO SCALE



PROJECT:
CITY OF MOBILE
KEEP MOBILE BEAUTIFUL RECYCLING CENTER
1451 GOVERNMENT STREET
MOBILE, ALABAMA

SHEET TITLE:
FIGURE 3
SITE & GROUNDWATER
POTENTIOMETRIC MAP

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REVISIONS:

DATE	COMMENTS

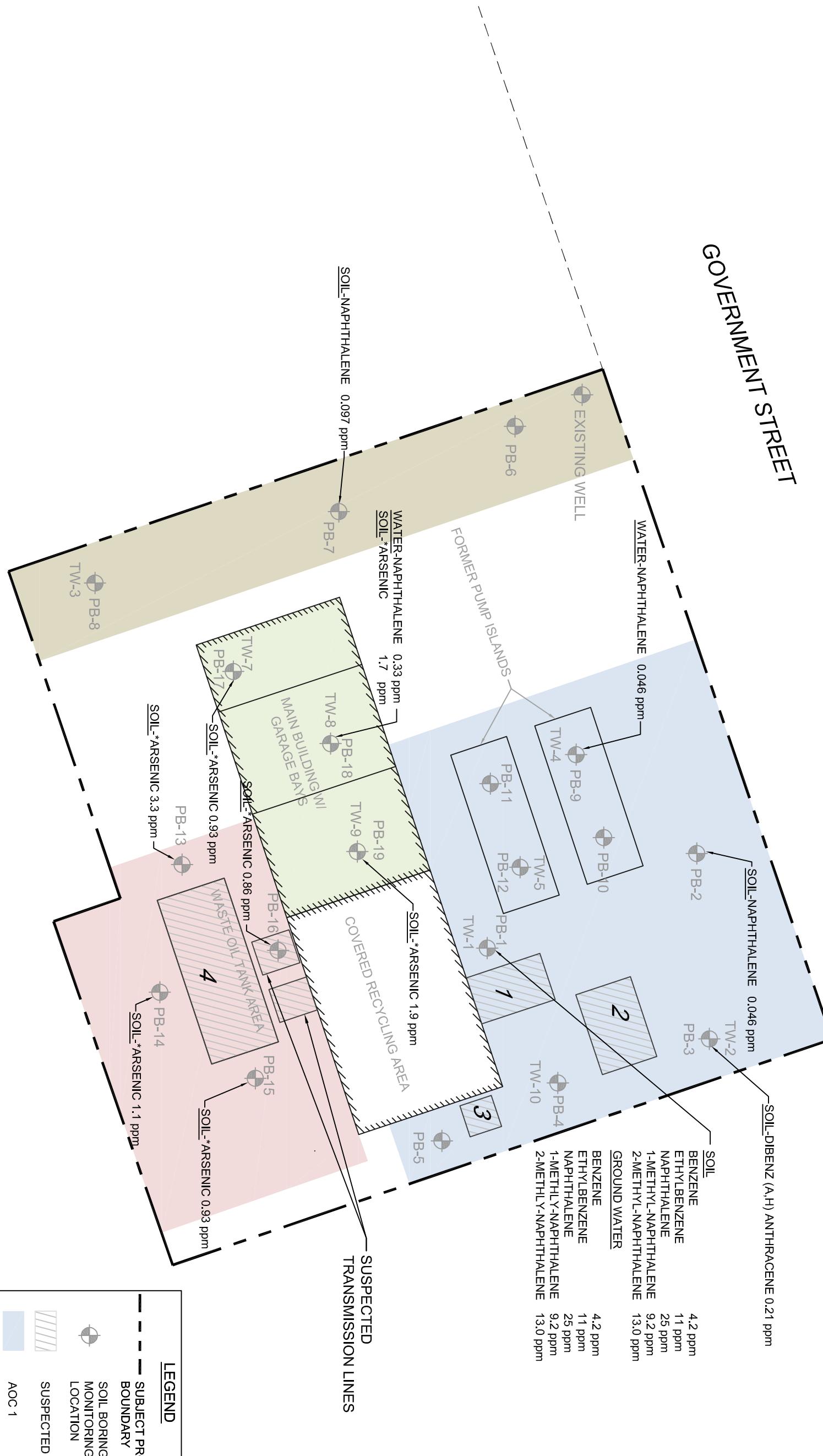
1

DESIGNED BY: J.W.	DRAWN BY: B.N.K.
CHECKED BY: J.W.	DATE: 6/27/2012
SHEET NO.: 111234-009	
JOB NO.: 111234-009	

FIGURE 4
SOIL AND GROUNDWATER LOCATIONS AND ANALYTICAL RESULTS / GPR SURVEY RESULTS / AOC LOCATION MAP



NOT TO SCALE



LEGEND	
-----	SUBJECT PROPERTY BOUNDARY
	SOIL BORING / MONITORING WELL LOCATION
	SUSPECTED UST PIT
AOC 1	CLIENT: CITY OF MOBILE
AOC 2	PROJECT: CITY OF MOBILE KEEP MOBILE BEAUTIFUL RECYCLING CENTER 1451 GOVERNMENT STREET MOBILE, ALABAMA
AOC 3	SHEET TITLE: FIGURE 4
AOC 4	REVISIONS: DATE COMMENTS

1	CLIENT: CITY OF MOBILE	PROJECT: CITY OF MOBILE KEEP MOBILE BEAUTIFUL RECYCLING CENTER 1451 GOVERNMENT STREET MOBILE, ALABAMA	SHEET TITLE: FIGURE 4	REVISIONS: DATE COMMENTS
1	DESIGNED BY: JW	DRAWN BY: BNK	CHEKED BY: JW	2296 Henderson Mill Rd. Suite 200 Atlanta, GA 30345 Phone: (678) 999-0173 Fax: (678) 999-0186 www.CERM.com
1	DATE: 6/27/2012	DATE: 6/27/2012	DATE: 6/27/2012	
1	JOB NO.: 111234-009	JOB NO.: 111234-009	JOB NO.: 111234-009	

APPENDIX B – TABLES

TABLE 1
REGIONAL BACKGROUND METALS DATA

Metal	USGS PP 1270		PPM Analytical Data		
	Range	Mean	Range	Mean	Samples
Arsenic	<0.1 – 73	2.65	0.543 – 9.5	3.38	49
Barium	10 - 1,500	290	1.10-259	26.65	21
Cadmium	No Data	No Data	BDL - 1.0	Not Calculated	18
Chromium	1 – 1,000	33	1.0 - 66.3	9.61	58
Lead	<10 - 300	14	0.575 - 60.2	6.38	58
Mercury	0.01 – 3.4	0.081	BDL	BDL	3
Selenium	<0.1 – 3.9	0.30	BDL - 5.30	Not Calculated	14
Silver	No Data	No Data	BDL - 12.1	Not Calculated	3

Notes: BDL = Below Detection Limits

Means not calculated for PPM data were due to large number of BDL results

Sources: USGS Professional Paper 1270, data for Eastern United States
PPM Consultants, Inc. data was collected in Mobile and surrounding counties

TABLE 2
SOIL ANALYTICAL SUMMARY
KEEP MOBILE BEAUTIFUL RECYCLING CENTER
1451 GOVERNMENT STREET
MOBILE, ALABAMA 36604

RMBRC-7-NL	SAMPLE DATE AND TIME	Benzene	Ethylbenzene	Methyl tert-butyl ether	Toluene	Xylenes (Total)	1-Methyl-naphthalene	Aceanthiphene	Acenaph-tielyne	Anthracene	Benzol[anthracene]	Benzol[al]pyrene	Benzol[g,h,i]-perylene	Benzol[k]-fluoranthene
SAMPLE LOCATION	Method Units	PSV- Commercial	PSV-Small Soil Source			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PB-12/TW5	05/18/2012 08:40	<0.00049	<0.00060	<0.00099	<0.00067	<0.0019	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041
PB-3/TW3	05/17/2012 09:30	<0.00053	<0.00067	<0.0011	<0.00074	<0.0021	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041
PB-7	05/17/2012 10:05	<0.00063	<0.00079	<0.0013	<0.00088	<0.0025	<0.043	0.071 J	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043
PB-13	05/17/2012 10:35	<0.00049	<0.00061	<0.00099	<0.00068	<0.0019	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
PB-16	05/17/2012 10:55	<0.00051	<0.00063	<0.0010	<0.00071	<0.0020	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
PB-14	05/17/2012 11:15	<0.00048	<0.00060	<0.00098	<0.00066	<0.0019	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039
PB-15	05/17/2012 11:25	<0.00049	<0.00061	<0.0010	<0.00068	<0.0019	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038
PB-17/TW7	05/17/2012 13:20	NA	NA	NA	NA	NA	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038
PB-18/TW8	05/17/2012 13:55	NA	NA	NA	NA	NA	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039
PB-19/TW9	05/17/2012 14:30	NA	NA	NA	NA	NA	<0.040	0.061 J	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
PB-11	05/17/2012 15:20	<0.00043	<0.00053	<0.00087	<0.00059	<0.0017	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037
PB-9/TW4	05/18/2012 09:00	<0.00053	<0.00066	<0.0011	<0.00074	<0.0021	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039
PB-10	05/18/2012 09:20	<0.00056	<0.00069	<0.0011	<0.00077	<0.0022	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
PB-2	05/18/2012 09:55	<0.00047	<0.00058	<0.00096	<0.00065	<0.0018	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
PB-1/TW1	05/18/2012 10:10	<0.25	4.3	<0.51	<0.34	<0.96	2.7	4.1	0.62 J	<0.039	<0.039	<0.039	<0.039	<0.039
PB-3/TW2	05/18/2012 10:30	<0.00058	<0.00073	<0.0012	<0.00081	<0.0023	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.040 J	0.048 J
PB-5	05/18/2012 10:55	<0.00054	<0.00068	<0.0011	<0.00075	<0.0021	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043
PB-4/TW10	05/18/2012 11:25	<0.00051	<0.00063	<0.0010	<0.00071	<0.0020	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
DUP	05/18/2012 00:00	<0.00054	<0.00067	<0.0011	<0.00074	<0.0021	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

*Preliminary Screening Value taken from ADEM's Risk-Based Corrective Action Guidance Manual, April 2008, Soil Screening Levels Protective of Groundwater, Commercial Soil, reported in mg/kg
 **Assumed to be Chromium III
 PSV Commercial = PSV's Small Soil Source reporting limits are shown in bold.
 Deletions above laboratory reporting limits are shown in blue.

Values exceeding PSV's Residential Soil are shaded yellow.
 Values exceeding PSV's Residential Soil are shaded blue.

J = Concentration is an approximate value

B = Compound was also found in a laboratory blank

TABLE 2
SOIL ANALYTICAL SUMMARY
KEEP MOBILE BEAUTIFUL RECYCLING CENTER
1451 GOVERNMENT STREET
MOBILE, ALABAMA 36604

RMBCU-7-NL		SAMPLE DATE AND TIME	Chrysene 8270C mg/Kg 210	Dibenz(a,h)-anthracene 8270C mg/Kg 0.21	Fluoranthene 8270C mg/Kg 2,200	Indeno [1,2,3-cd]pyrene 8270C mg/Kg 2.1	Naphthalene 8270C mg/Kg 19	Phenanthrene 8270C mg/Kg 3,060	Pyrene 8270C mg/Kg 3,35	Percent Solids NS	Arsenic 60/10B mg/Kg 1.6	Barium 60/10B mg/Kg 6,700	Cadmium 60/10B mg/Kg 45	Chromium* 60/10B mg/Kg 199	Lead 60/10B mg/Kg 800	Mercury 7471A mg/Kg 31
PSV-Small Soil Source																
PB-12/TW5	05/18/2012 08:40	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	80	NA	NA	NA	NA	NA	NA
PB-3/TW3	05/17/2012 09:30	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	79	NA	NA	NA	NA	NA	NA
PB-7	05/17/2012 10:05	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	76	NA	NA	NA	NA	NA	NA
PB-13	05/17/2012 10:35	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	78	3.3	16	<0.12	11	6.2	0.013
PB-16	05/17/2012 10:55	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	79	0.86	9.2	<0.11	6.1	3.5	<0.0036
PB-14	05/17/2012 11:15	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	84	1.1	14	<0.11	5.7	4.0	<0.0033
PB-15	05/17/2012 11:25	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	88	0.33	13	<0.11	5.8	4.2	<0.0031
PB-17/TW7	05/17/2012 13:20	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	87	0.93	11	<0.11	6.4	4.2	<0.0031
PB-18/TW8	05/17/2012 13:55	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	84	1.7	12	<0.12	8.4	14	0.13 B
PB-19/TW9	05/17/2012 14:30	<0.040	<0.040	0.050 J	<0.040	<0.040	<0.040	<0.040	<0.040	81	1.9	15	<0.12	9.0	24	0.037 B
PB-11	05/17/2012 15:20	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	87	NA	NA	NA	NA	NA	NA
PB-9/TW4	05/18/2012 09:00	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	84	NA	NA	NA	NA	NA	NA
PB-10	05/18/2012 09:20	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	78	NA	NA	NA	NA	NA	NA
PB-2	05/18/2012 09:55	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.046 J	<0.040	83	NA	NA	NA	NA	NA	NA
PB-1/TW1	05/18/2012 10:10	<0.039	<0.039	0.065 J	<0.039	<0.039	<0.039	0.94	0.10 J	85	NA	NA	NA	NA	NA	NA
PB-3/TW2	05/18/2012 10:30	0.050 J	0.21 J	<0.040	<0.040	0.047 J	<0.040	<0.040	<0.040	81	NA	NA	NA	NA	NA	NA
PB-5	05/18/2012 10:55	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	76	NA	NA	NA	NA	NA	NA
PB-4/TW10	05/18/2012 11:25	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	82	NA	NA	NA	NA	NA	NA
DUP	05/18/2012 00:00	NA	NA	NA	NA	<0.0011	NA	NA	NA	81	NA	NA	NA	NA	NA	NA

Notes:

PSV Commercial = Preliminary Screening Value taken
PSV Small Source = value taken from ADEM's Risk

*Assumed to be Chromium III

**Naphthalene concentration analyzed under VOC an
Deletions above laboratory reporting limits are shown

Values exceeding PSVs Small Soil Source are shaded

Values exceeding PSVs Residential Soil are shaded

J = Concentration is an approximate value

B = Compound was also found in a laboratory blank

TABLE 2
SOIL ANALYTICAL SUMMARY
KEEP MOBILE BEAUTIFUL RECYCLING CENTER
1451 GOVERNMENT STREET
MOBILE, ALABAMA 36604

RMBRC-7-NL	SAMPLE LOCATION	SAMPLE DATE AND TIME	Acetone
Method Units	PSV-Commercial		8260B mg/kg
PSV-Small Soil Source			5,400
PB-12/TW5		05/18/2012 08:40	NA
PB-3/TW3		05/17/2012 09:30	NA
PB-7		05/17/2012 10:05	NA
PB-13		05/17/2012 10:35	0.052
PB-16		05/17/2012 10:55	<0.0076
PB-14		05/17/2012 11:15	<0.0071
PB-15		05/17/2012 11:25	<0.0073
PB-17/TW7		05/17/2012 13:20	NA
PB-18/TW8		05/17/2012 13:55	NA
PB-19/TW9		05/17/2012 14:30	NA
PB-11		05/17/2012 15:20	NA
PB-9/TW4		05/18/2012 09:00	NA
PB-10		05/18/2012 09:20	NA
PB-2		05/18/2012 09:55	NA
PB-1/TW1		05/18/2012 10:10	NA
PB-3/TW2		05/18/2012 10:30	NA
PB-5		05/18/2012 10:55	NA
PB-4/TW10		05/18/2012 11:25	NA
DUP		05/18/2012 00:00	<0.0080

Notes:

PSV Commercial = Preliminary Screening Value taken

PSV Small Source = value taken from ADEM's Risk

*Assumed to be Chromium III

†Naphthalene concentration analyzed under VOC an

*No applicable standard

Deletions above laboratory reporting limits are shown

Values exceeding PSVs Small Soil Source are shaded

Values exceeding PSVs Residential Soil are shaded

I = Concentration is an approximate value

B = Compound was also found in a laboratory blank

TABLE 3
GROUNDWATER ANALYTICAL SUMMARY
KEEP MOBILE BEAUTIFUL RECYCLING CENTER
1451 GOVERNMENT STREET
MOBILE, ALABAMA 36604

KMBRC

SAMPLE LOCATION Method Units	SAMPLE DATE	Benzene 8260B mg/L	Ethylbenzene 8260B mg/L	Naphthalene 8270C LL mg/L	1-Methyl-naphthalene 8270C LL mg/L	2-Methyl-naphthalene 8270C LL mg/L
PSV		0.005	0.7	0.00062	0.00626	0.00626
PB-17/TW7	05/22/2012	NA	NA	0.16 U	0.14 U	0.13 U
DUP	05/21/2012	0.34 U	0.50 U	NA	NA	NA
FIELD BLANK	05/23/2012	0.34 U	0.50 U	NA	NA	NA
PB-18/TW8	05/22/2012	NA	NA	0.33 I	0.17 U	0.14 U
PB-19/TW9	05/22/2012	NA	NA	0.24 U	0.21 U	0.19 U
PB-9/TW4	05/22/2012	0.34 U	0.50 U	0.021 U	0.021 U	0.021 U
PB-12/TW5	05/22/2012	0.34 U	0.50 U	0.021 U	0.021 U	0.021 U
PB-1/TW1	05/22/2012	4.2	11	25	9.2	13
PB-4/TW10	05/22/2012	0.34 U	0.50 U	0.021 U	0.021 U	0.021 U
PB-8/TW3	05/22/2012	0.34 U	0.50 U	0.020 U	0.020 U	0.020 U
PB-6	05/21/2012	0.34 U	0.50 U	0.019 U	0.019 U	0.019 U

Notes:

PSV = Preliminary Screening Value taken from ADEM's Risk-Based Corrective Action Guidance Manual, April 2008,

"Direct Contact Exposure Pathways," Groundwater/Tap Water, reported in mg/L

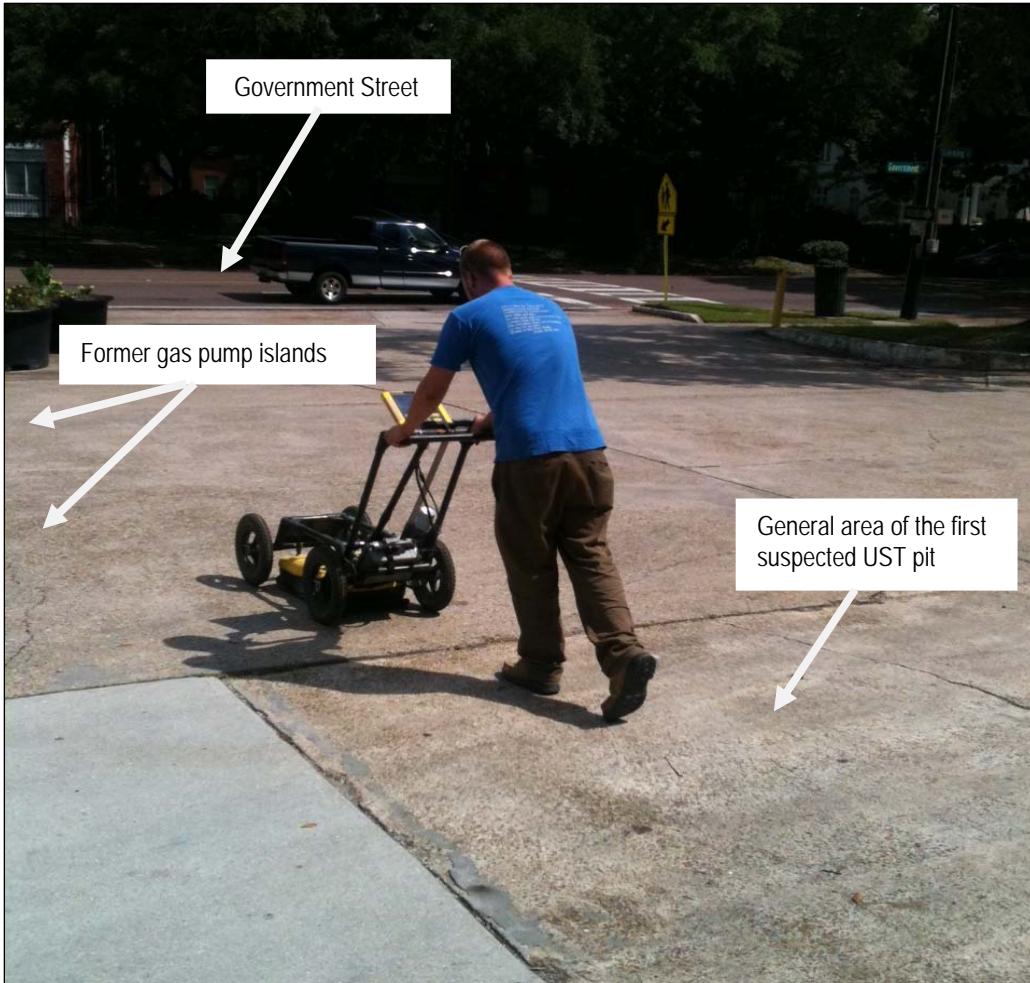
NS = No applicable standard

Detections above laboratory reporting limits are shown in **bold**.

Values exceeding PSVs are shaded yellow.

APPENDIX C – SITE PHOTOGRAPHS

KMBRC - Phase III Environmental Site Assessment



Subject: View of Pensacola Testing Laboratory, Inc., GPR technician conducting a survey between PB-2 and PB-4 on the northeast end of the project site east of the former gas pump islands. The GPR technician is using a Noggin 250 unit push by hand across the site along parallel grid lines oriented north-south and west-east and spaced approximately 5-10 feet apart.

Location: KMBRC Site
 1451 Government Street
 Mobile, Alabama 36604

Orientation: North **Date:** May 14, 2012 **Photographer:** John Wright, CERM

KMBRC - Phase III Environmental Site Assessment



Subject: Northeast view of GPR technician is using a Noggin 250 unit near the proposed location of PB-1/TW-1 east of the former gas pump islands.

Location: KMBRC Site
1451 Government Street
Mobile, Alabama 36604

Orientation: East **Date:** May , 2012

Photographer: John Wright, CERM

KMBRC - Phase III Environmental Site Assessment

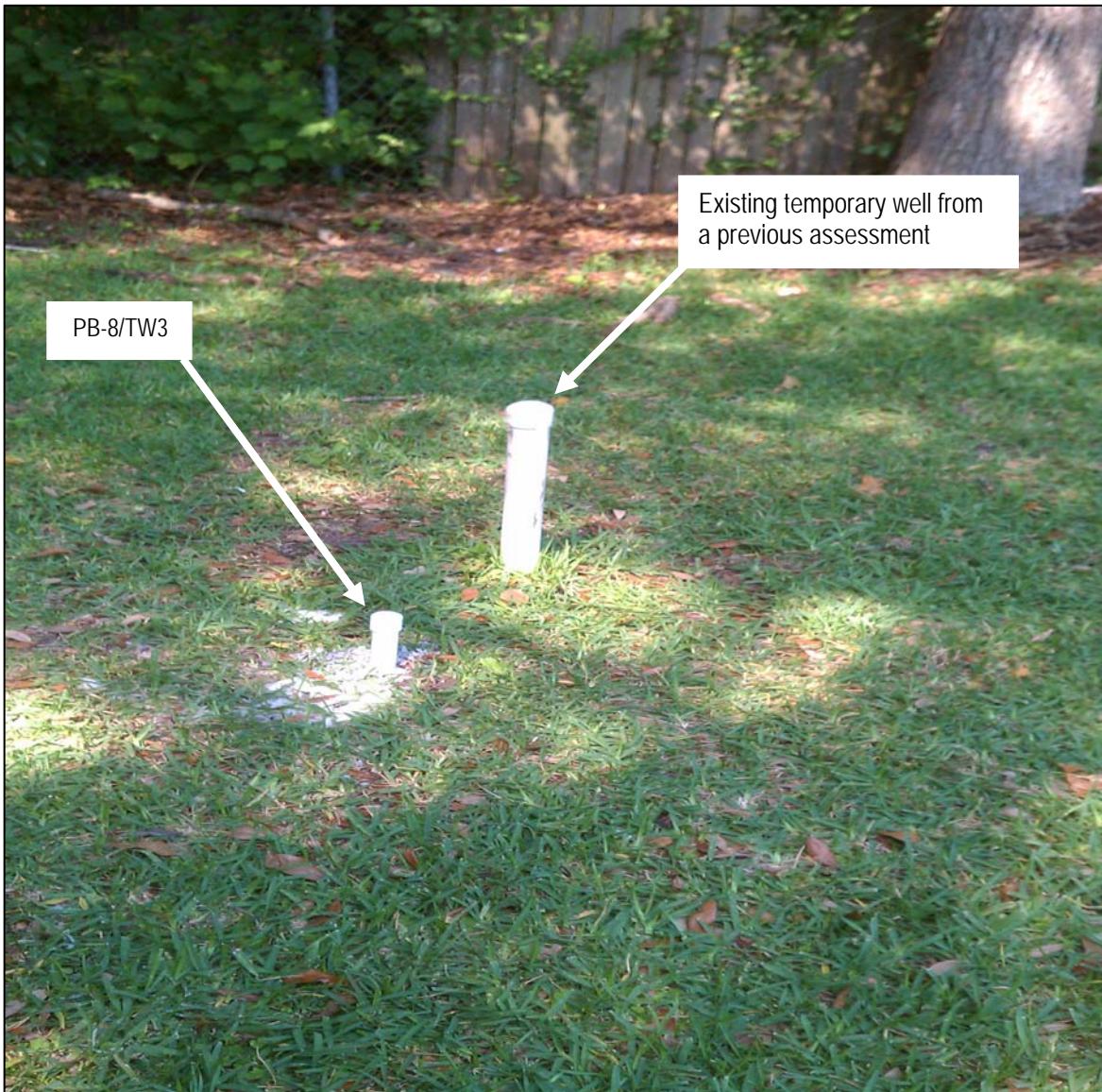


Subject: View of the drillers preparing to put in proposed boring PB-11 on the south end of the former gas pump islands.

Location: KMBRC Site
1451 Government Street
Mobile, Alabama 36604

Orientation: Southwest **Date:** May 17, 2012 **Photographer:** Johnnie Jackson, CERM

KMBRC - Phase III Environmental Site Assessment



Subject: View of soil and groundwater sampling location PB-8/TW3 and an existing temporary well from a previous assessment. The existing temporary well was not sampled.

Location: KMBRC Site
1451 Government Street
Mobile, Alabama 36604

Orientation: Southwest **Date:** May 17, 2012 **Photographer:** Johnnie Jackson, CERM

KMBRC - Phase III Environmental Site Assessment



Subject: View of the existing well (PB-6) from a previous assessment.

Location: KMBRC Site
 1451 Government Street
 Mobile, Alabama 36604

Orientation: Southeast **Date:** July 6, 2012 **Photographer:** Terry Williams, CERM

KMBRC - Phase III Environmental Site Assessment



Subject: View of suspected underground waste oil tank located in AOC 3 on the subject property. The view is from Stocking Street looking west.

Location: KMBRC Site
1451 Government Street
Mobile, Alabama 36604



Orientation: West Date: July 6, 2012

Photographer: Terry Williams, CERM

KMBRC - Phase III Environmental Site Assessment



Subject: View of soil boring location PB-5 facing north toward Government Street.

Location: KMBRC Site
1451 Government Street
Mobile, Alabama 36604

Orientation: North Date: July 6, 2012

Photographer: Terry Williams, CERM

APPENDIX D - GEOLOGIC BORING LOGS



C E R M

PB-8/TW3

Project Location CERM Proj. No.	KMBRC Mobile, AL 111-234-009	Date Completed Drilling Method Sampling Method	5/17/2012 Direct Push Grab
---------------------------------------	------------------------------------	--	----------------------------------

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0				Soil Description	
1				(0-4')	
2				(4-7') Photo	
3				(7-8')	
4	0	Moist	Topsoil/Tan M-F Sand	(8-9')	
5				(9-12')	
6				(12-16')	
7	0			(16-20')	
8	0			(20-24')	
9	0			(24-28')	
10				(28-32')	
11				(32-36')	
12	0	Wet	Sample Brown M-F Sandy Clay	(36-40')	
13				(40-44')	
14				(44-48')	
15				(48-52')	
16	0		Frey M-F Sandy Clay	(52-56')	
17				(56-60')	
18				(60-64')	
19				(64-68')	
20				(68-72')	
21				(72-76')	
22				(76-80')	
23				(80-84')	
24				(84-88')	
25				(88-92')	
26				(92-96')	
27				(96-100')	
28				(100-104')	
29				(104-108')	
30				(108-112')	
31				(112-116')	
32				(116-120')	
33				(120-124')	
34				(124-128')	
35				(128-132')	
36				(132-136')	
37				(136-140')	
38				(140-144')	
39				(144-148')	
40				(148-152')	



C E R M

PB-7

Project Location CERM Proj. No.		KMBRC Mobile, AL 111-234-009		Date Completed Drilling Method Sampling Method	5/17/2012 Direct Push Grab
Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0					
1					
2					
3					
4	0			Topsoil/Light Brown M-F Sandy Clay	(0-4')
5					
6	0			Light Brown/Reddish M-F Sandy Clay	(4-6')
7					
8	0			Greyish M-F Sandy Clay	(6-8')
9					
10					
11					
12	0	Moist		Grey Sand	(8-12')
13					
14					
15					
16	0	Wet	Sample	Grey Sand	(12-16')
17					
18					
19					
20					
21					
22					
23					
24					
25					
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C E R M

PB-13

Project Location CERM Proj. No.	KMBRC Mobile, AL 111-234-009	Date Completed Drilling Method Sampling Method	5/17/2012 Direct Push Grab
---------------------------------------	------------------------------------	--	----------------------------------

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0				Soil Description	
1					
2					
3					
4	0.1			Asphalt/Light Brown M-F Sandy Clay (0-4')	
5				Greyish M-F Sand (4-6')	
6	0			Reddish/Brown/Tan M-F Sandy Clay (6-8')	
7				Tan/Grey/Brown M-F Sand (8-12')	
8	0	Moist		Grey M-F Sand (12-16')	
9				-----	
10				-----	
11				-----	
12	0	Moist		-----	
13				-----	
14				-----	
15				-----	
16	0	Wet	Sample	-----	
17				-----	
18				-----	
19				-----	
20				-----	
21				-----	
22				-----	
23				-----	
24				-----	
25				-----	
26				-----	
27				-----	
28				-----	
29				-----	
30				-----	
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32				-----	
33				-----	
34				-----	
35				-----	
36				-----	
37				-----	
38				-----	
39				-----	
40				-----	



C E R M

PB-16

Project	KMBRC	Date Completed	5/17/2012
Location	Mobile, AL	Drilling Method	Direct Push
CERM Proj. No.	111-234-009	Sampling Method	Grab

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0					
1					
2					
3					
4	0			Asphalt/Greyish M-F Sandy Clay	(0-4')
5					
6					
7					
8	0			Greyish/Light Brown M-F Sandy Clay	(4-8')
9					
10					
11					
12	0	Wet	Sample	Greyish/Light Brown M-F Sandy Clay	(8-12')
13					
14					
15	0	Wet		Grey M-F Sand	(12-16')
16					
17					
18					
19					
20					
21					
22					
23					
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39					
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C E R M

PB-14

Project Location CERM Proj. No.	KMBRC Mobile, AL 111-234-009	Date Completed Drilling Method Sampling Method	5/17/2012 Direct Push Grab
---------------------------------------	------------------------------------	--	----------------------------------

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0					
1					
2					
3					
4	0			Asphalt/Brown M-F Sandy Clay	(0-4')
5					
6					
7					
8	0	Wet	Sample	Light Brown M-F Sandy Clay	(4-8')
9					
10	0	Wet		Light Brown M-F Sandy Clay	(8-12')
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
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36					
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39					
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C E R M

PB-15

Project Location CERM Proj. No.	KMBRC Mobile, AL 111-234-009	Date Completed Drilling Method Sampling Method	5/17/2012 Direct Push Grab
---------------------------------------	------------------------------------	--	----------------------------------

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0					
1					
2					
3					
4	0			Asphalt/Light Brown/Greyish M-F Sandy Clay	(0-4')
5					
6					
7					
8	0	Wet	Sample	Light Brown/Greyish M-F Sandy Clay	(4-8')
9					
10	0	Wet		Light Brown/Greyish M-F Sandy Clay	(8-12')
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
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35					
36					
37					
38					
39					
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C E R M

PB-17/TW7

Project Location CERM Proj. No.	KMBRC Mobile, AL 111-234-009	Date Completed Drilling Method Sampling Method	5/17/2012 Direct Push Grab
---------------------------------------	------------------------------------	--	----------------------------------

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0					
1					
2					
3					
4	0			Concrete/Tan/Light Brown M-F Sandy Clay	(0-4")
5					
6					
7					
8	0	Wet	Sample	Tan/Light Brown/Greyish M-F Sandy Clay	(4-8")
9					
10	0	Wet		Tan/Light Brown/Greyish M-F Sandy Clay	(8-12")
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
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35					
36					
37					
38					
39					
40					



C E R M

PB-18/TW8

Project Location CERM Proj. No.		KMBRC Mobile, AL 111-234-009	Date Completed Drilling Method Sampling Method	5/17/2012 Direct Push Grab
Depth in Feet	PID Reading (PPM)	Water Level	Sample	
Soil Description				
0				
1				
2				
3				
4	0		Concrete/Light Brown M-F Sandy Clay	(0-4')
5				
6				
7				
8	0	Wet	Light and Dark Brown M-F Sandy Clay	(4-8')
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
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36				
37				
38				
39				
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C E R M

PB-19/TW9

Project Location CERM Proj. No.	KMBRC Mobile, AL 111-234-009	Date Completed Drilling Method Sampling Method	5/17/2012 Direct Push Grab
---------------------------------------	------------------------------------	--	----------------------------------

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0					
1					
2					
3					
4	0			Concrete/Reddish M-F Sand	(0-4')
5					
6					
7					
8	0	Wet	Sample	Reddish/Light Brown M-F Sand	(4-8')
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
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C E R M

PB-11

Project	KMBRC	Date Completed	5/17/2012
Location	Mobile, AL	Drilling Method	Direct Push
CERM Proj. No.	111-234-009	Sampling Method	Grab

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0					
1					
2					
3					
4	0			Concrete/Light Brown M-F Sandy Clay	(0-4')
5					
6					
7					
8	0	Wet	Sample	Light Brown/Tan M-F Sandy Clay	(4-8')
9					
10	0	Wet		Light Brown/Tan/Brown Sand	(8-12')
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
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35					
36					
37					
38					
39					
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C E R M

PB-12/TW5

Project	KMBRC	Date Completed	5/18/2012
Location	Mobile, AL	Drilling Method	Direct Push
CERM Proj. No.	111-234-009	Sampling Method	Grab

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0					
1					
2					
3					
4	0			Concrete/Light Brown M-F Sand	(0-4')
5					
6					
7					
8	0	Wet	Sample	Light Brown/Reddish/Grey M-F Sand	(4-8')
9					
10	0	Wet		Light Brown/Reddish/Grey M-F Sand	(8-12')
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
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35					
36					
37					
38					
39					
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C · E · R · M

PB-9/TW4

Project Location CERM Proj. No.		KMBRC Mobile, AL 111-234-009		Date Completed Drilling Method Sampling Method	5/18/2012 Direct Push Grab
Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0				Soil Description	
1					
2					
3					
4	0			Concrete/Light Brown/Greyish M-F Sand (0-4')	
5				-----	
6					
7					
8	0	Wet	Sample	Light Brown M-F Sand (4-8')	
9					
10				-----	
11					
12	0	Wet		Light Brown/Light Grey M-F Sand (8-12')	
13					
14					
15				-----	
16					
17					
18					
19					
20				-----	
21					
22					
23					
24					
25				-----	
26					
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30				-----	
31					
32					
33					
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35				-----	
36					
37					
38					
39					
40				-----	



C E R M

PB-10

Project Location CERM Proj. No.	KMBRC Mobile, AL 111-234-009	Date Completed Drilling Method Sampling Method	5/18/2012 Direct Push Grab
---------------------------------------	------------------------------------	--	----------------------------------

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0				Soil Description	
1				(0-4')	
2				(4-6')	
3				(6-8')	
4	0			(8-12')	
5				(12-16')	
6	0			(16-20')	
7				(20-24')	
8	0			(24-28')	
9				(28-32')	
10				(32-36')	
11				(36-40')	
12	0	Wet	Sample	(40-44')	
13				(44-48')	
14				(48-52')	
15				(52-56')	
16				(56-60')	
17				(60-64')	
18				(64-68')	
19				(68-72')	
20				(72-76')	
21				(76-80')	
22				(80-84')	
23				(84-88')	
24				(88-92')	
25				(92-96')	
26				(96-100')	
27				(100-104')	
28				(104-108')	
29				(108-112')	
30				(112-116')	
31				(116-120')	
32				(120-124')	
33				(124-128')	
34				(128-132')	
35				(132-136')	
36				(136-140')	
37				(140-144')	
38				(144-148')	
39				(148-152')	
40				(152-156')	



C E R M

PB-2

Project Location CERM Proj. No.	KMBRC Mobile, AL 111-234-009	Date Completed Drilling Method Sampling Method	5/18/2012 Direct Push Grab
---------------------------------------	------------------------------------	--	----------------------------------

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0				Soil Description	
1				Concrete/Light Brown/Greyish Sand (0-4')	
2				-----	
3				-----	
4	0			Concrete/Light Brown/Greyish Sand (0-4')	
5				-----	
6				-----	
7				-----	
8	0	Wet	Sample	Light Brown/Reddish/Grey M-F Sand (4-8')	
9				-----	
10				-----	
11				-----	
12	0	Wet		Light Brown/Grey Sand (8-12')	
13				-----	
14				-----	
15				-----	
16				-----	
17				-----	
18				-----	
19				-----	
20				-----	
21				-----	
22				-----	
23				-----	
24				-----	
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26				-----	
27				-----	
28				-----	
29				-----	
30				-----	
31				-----	
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35				-----	
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37				-----	
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39				-----	
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C E R M

PB-1/TW1

Project Location CERM Proj. No.		KMBRC Mobile, AL 111-234-009	Date Completed Drilling Method Sampling Method	5/18/2012 Direct Push Grab
Depth in Feet	PID Reading (PPM)	Water Level	Sample	
Soil Description				
0				
1				
2				
3				
4	0		Concrete/Reddish/Grey M-F Sand	(0-4')
5				
6				
7				
8	10.1	Moist	Dark Brown M-F Sand Order	(4-8')
9				
10				
11				
12	67.1	Wet	Dark Brown M-F Sand Order	(8-12')
13				
14				
15				
16				
17				
18				
19				
20				
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C E R M

PB-3/TW2

Project Location CERM Proj. No.	KMBRC Mobile, AL 111-234-009	Date Completed Drilling Method Sampling Method	5/18/2012 Direct Push Grab
---------------------------------------	------------------------------------	--	----------------------------------

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0					
1					
2					
3					
4	0			Concrete/Brown/Grey M-F Clayey Sand (0-4')	
5					
6	0	Moist		Brown/Grey/Reddish M-F Sandy Clay (4-6')	
7					
8	0	Wet	Sample	Brown/Grey M-F Sand (6-8')	
9					
10	0	Wet		Brown/Grey M-F Sand (8-10')	
11					
12	0	Wet		Dark Brown M-F Sand Order (10-12')	
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
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C E R M

PB-5

Project	KMBRC	Date Completed	5/18/2012
Location	Mobile, AL	Drilling Method	Direct Push
CERM Proj. No.	111-234-009	Sampling Method	Grab

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0					
1					
2					
3					
4	0			Concrete/Brown/Greyish M-F Sand	(0-4')
5					
6					
7					
8	0	Moist		Brown/Reddish/Grey M-F Sandy Clay	(4-8')
9					
10					
11	0	Wet	Sample	Brown/Grey M-F Sand	(8-12')
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
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37					
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39					
40					



C E R M

PB-4/TW10

Project	KMBRC	Date Completed	5/18/2012
Location	Mobile, AL	Drilling Method	Direct Push
CERM Proj. No.	111-234-009	Sampling Method	Grab

Depth in Feet	PID Reading (PPM)	Water Level	Sample	Soil Description	
0				Concrete/Brown M-F Sand	(0-4")
1					
2					
3					
4	0				
5					
6					
7					
8	0	Wet	Sample	Brown/Grey M-F Sand	(4-8")
9	0	Wet		Grey M-F Sand	(8-9")
10	0	Wet		Brown M-F Sand	(9-10")
11					
12	0	Wet		Grey M-F Sand	(10-12")
13					
14					
15					
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APPENDIX E – FIELD FORMS

KMBRC

11' 10" -

Parry Sams

PB-8

Thur 17 May 12

7:00 AM Onsite + Drillers

75°

8:10 H + S

~~9:20 Start PB-8 / Tw 3~~

9:30 Soil / H/S Sample

PB-8 will be Tw 3 a/s/o

9:45 H/S

4-7 Top soil Tan m-f sand

sandy class

7-8 Reddish Brown/Tan/Brown m-f sandy class

8-9 Same 7-8

9-12 Brown m-f sandy class

12

9:45 H/S

16

Grey m-f sandy class

20

9:35 Well install

24

9:40 Finished Well install

24

TW-1 PB-1 Moved 90' east

* PB-2 Moved 90' east

* PB-3 Moved 60' east

* PB-4 Moved 60' east

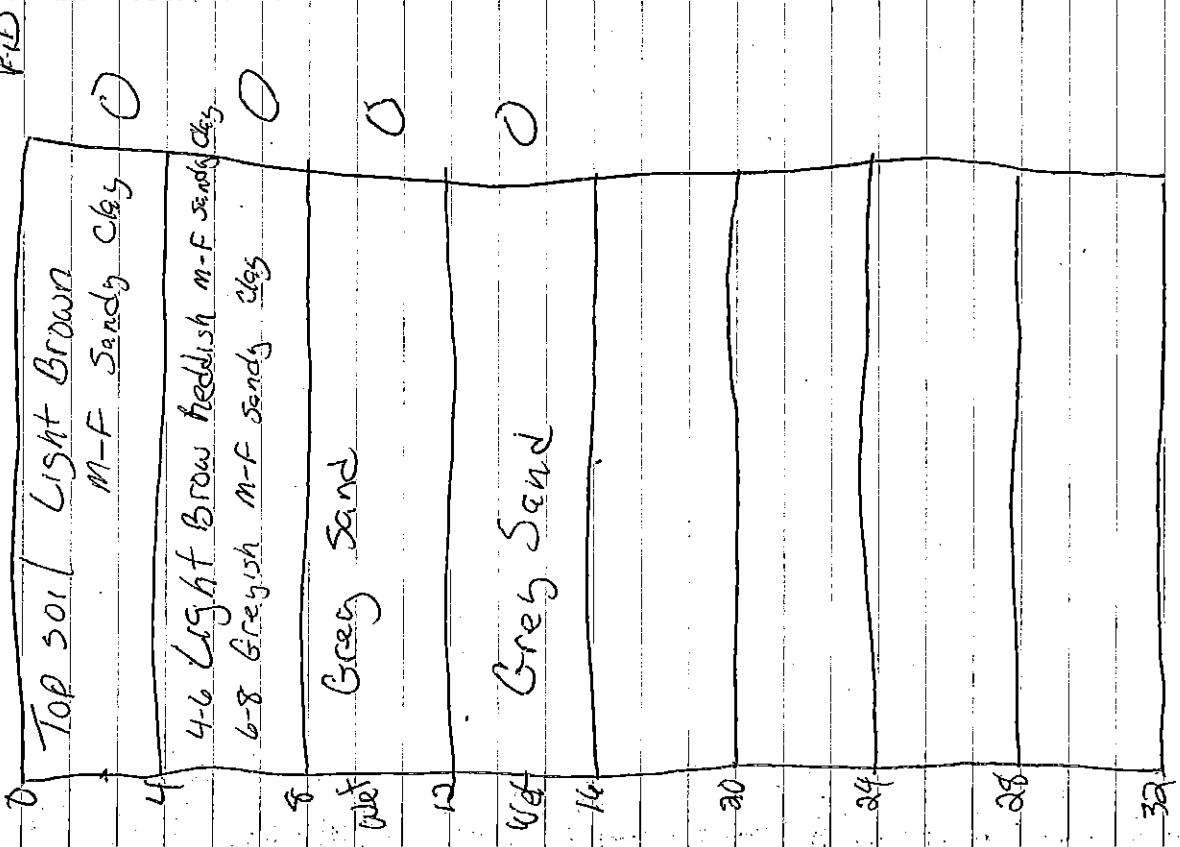
W6 * PB-6 Moved 60' N to existing well (using existing well for water sample)

RD

11 May 1 Cont

7 May 12 Cont PB=7

P.D.



9:55 Started PB-7

10:05 Soil / HS Sample 13-16

10:10 Done

10:25 HS 0

11100 J.A. con.

17 May 12 Cont PB-13

PB-13

P.D.

Started

12-14

H.S / Soil Sample

10:35 10:40 Done 10:50 14:50

12-14
Done
14:50

0	Ashphalt	Dark Grey	M-F Sand	Clay	Oil
4	4-6	Greenish	Sand M-E		O
8	6-8	Reddish	Brown Tan M-F Sand	Clay	
12					
16					

Tan Grey Brown M-F Sand

0
M-F Sand

16

17 May 12 Cont

PB-16

Started

(8-12)

H5 / Soil Sample

11:00 Done

H5 O

Greish Light Brown

M-F Sand, clay

Same 4-8 O

Greish Sand O

16

PB-16

PID

PID

0 Asphalt Greish
M-F Sand, clay O

17 May 12 cont

PB-19

11:10 Started

HS / Soil Sample
11:15 Done
11:30 HS O

\$10

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

PB-14

17 May 12 cont

PB-14

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

O

D

Sandy clay

4

Light Brown

m-f Sandy clay

8

Same 48.

12

Wet

17 May 19

PB-15

11:20 Started

HS / soil Sample

HS

Done

HS O

No female wells for

PB-13 tall

17 May 1d cont

PB-15

0 Asphalt Light Brown
Greyish M-F Sandy Chg

4 Light Brown Greenish
~~Wet~~ M-F Sandy Chg

8 Same 4-8

O

PB

0 Asphalt Light Brown
Greyish M-F Sandy Chg

4 Light Brown Greenish
~~Wet~~ M-F Sandy Chg

8 Same 4-8

O

17 May 12 cont

PB-17/Tw7

PB-17/Tw7

Mixed Cont

PB-17/Tw7

Started
1:15pm

Done
1:20 So, I /HS Sample

HS O
1:40

Started Well Hatch //
1:25

Finished Well Hatch
1:35

Topped Well with Bentonite
1:40

Installing Wells for PB-17 to 9

Concrete Tan Light Brown
m-f Sandy clay
0

Tan Light Brown
Wet
Greyish Sandy Clay
6

Wet
Same 4-S
12

Tan Light Brown
Wet
Greyish Sandy Clay
6

17 May 12 cont

17 May 12 cont

PB-18/Tus

PB-18/Tus

1:50 Started

1:55 Soil / HS Sample

Underground Concrete Slab @ 8'
Soil still wet

2:00 start well install

2:05 Finished 1st stall

2:10 Topped well w/ bentonite

2:10 HS 3:4

Initial PB-18 4.5' TOW 18' BOW

Time	Description	Material	Color	Condition	Notes
0:00	Started				
0:45	Concrete Sample	Concrete	Light Brown	M-F Sandy Clay	OK
1:30	Underground Concrete Slab @ 8'	Concrete	Light/Dark Brown	M-F Sandy Clay	OK
1:45	Soil still wet	Soil	Wet		
2:00	start well install				
2:05	Finished 1st stall				
2:10	Topped well w/ bentonite				
2:10	HS 3:4				

17 May 12 Cont

PB-19/Tw9

2:25 Started
4:30 HS / Soil Sample

Underground Concrete Slab 8'

8:30 Start Well Installed

Finish Well Installed

Topped Well w/ Bentonite

4:45 HS O

17 May 12 Cont

PB-19/Tw9

2:25 Concrete Reddish
M-F Sand O

17 May 12 cont

17 May 12 Cont

PB-11 P1D

- 3:15 Started PB-11
4:48
3:20 Soil / HS Sample
3:25 Done
3:40 HS D
4:30 Offset

0	Concrete Light Brown m-f Sandy Clay	0
4	Light Brown Tan m-f sandy clay	0
8	Light Brown Tan Brown Sand	0

17 May 12 cont

Fri 18 May 12 PB-12/Twss

8:00 AM Onsite
6:30 AM Started

7:30 AM

8:40 Soil HS Sample

8:45 Started Well Install

9:15 Finished Well Install
9:55 Topped Well by Bentone

9:55 HS O

Hanger Cont

PB-12/Twss pho

O	Concrete	O
	Light Brown M-F sand	O
4		
Net	Light Brown/Reddish	O
8	Grey M-F Sand	O
Net	Same 4-8	O
12		

18 May 19 cont

PB-9 / Two^y

- 8:55 Started
9:00 So, 1 / HS Sample
9:00 Started Well install
9:02 Finished Well install
9:05 Topped Well Bentonite
9:15 HS O

PB-9 / Two^y

P10

- 0 Concrete
Light Brown Greyish O
4 M-F Sand
wet Light Brown O
8 M-F Sand
wet Light Brown O
12 Light Grey m-f Sand

* Made Duds
For PB-9 / Two^y

18 May 19 cont

10/11/2012 cont

18mag/12 con

PB-10

PB-10

9:10 Started

9:20 HS/Soil Sample

Concrete
Light Brown Gray sand

0

4-6 Light Brown Reddish
M-F Sand's clas

0

6-8 Light Brown Grayish Sand

0

9:22 Finished well install

Wet
Light Brown
Grayish Sand

0

9:25 Topped well w/Bentonite

9:40 HS 0

PB-10

Concrete
Light Brown Gray sand

0

4-6 Light Brown Reddish
M-F Sand's clas

0

6-8 Light Brown Grayish Sand

0

0

Wet
Light Brown
Grayish Sand

0

Topped well w/Bentonite

HS 0

PB-10

Concrete
Light Brown Gray sand

0

4-6 Light Brown Reddish
M-F Sand's clas

0

6-8 Light Brown Grayish Sand

0

0

Wet
Light Brown
Grayish Sand

0

0

6-8 Light Brown Grayish Sand

0

Wet
Light Brown
Grayish Sand

0

18 May 12 cont

18 May 12 cont

PB-2

9:50 Started

4-8

9:55 Soil Hs Sam phs

9:57 Done

10:05 Its 0

PB-2

PB-D

0 Concrete
Light Brown Greysand 0

4 Light Brown -
Reddish Grey Sand 0

8 Light Brown
Greysand 0

12

18 May 12 Cont

PB-1 / TW1
PB-1 / TW2

10:05 Started

10:10 HS/Sol Sample

10:10 Started Well Install

10:15 Finished Well Install

10:18 Tapped Well w/ Bentonite

10:25 HS 904, 3

18 May 12 Cont

PB-1 / TW1
PB-1 / TW2

Concrete

Reddish Grey M-F Sandy

Dark Brown
M-F Sand
Order

Sime 4-8

67,1

18 May 12 Cont

PB-3 / Two 2

PB-3 / Two 2

10:25 Started

4-8

H.S. / Soil Sample

Started well instl

8

Finshed well instl

10:35

Topped well w/bentonite

10:45 H.S. D

Concrete Brown/Grey
M-F ^{changes} sand

4-6 Brown Grey Reddish Sandy Clay

6-8 Brown Grey Sand

5-10 Same 6-8
10-12 Grey M-F Sand

Wet

10:45 Topped well w/bentonite

10 min w/ vise

PB-5

10:50 Started

10:55 HS/Soi/ Sample

10:58 Done

11:10 HS

PB-5

Concrete

Brown Greyish M-F Sand

4

Brown Reddish Grey
M-F Sand Class

8

Brown Grey M-F Sand

12

18mag/2 cont

PB-5

Concrete

Brown Greyish M-F Sand

0

Brown Reddish Grey
M-F Sand Class

0

Brown Grey M-F Sand

0

18 May 2011

PB-4 / Two

11:15 Started

11:30 HS/Soil Sample

11:25 Start Well Install

* Mode DCL PÉ
m/s/mSD

11:30 Finished Well install

11:33 Topped Well w/ bentonite

11:40 - 145 0

PB-19 / Tw9

3.9

7.4

PB-18 / Tw8

3.8

7.95

PB-17 / Tw7
3.88

11.9

concrete com.

PB-4 / Two

8:10

0 Concrete
Brown m-f sand 10
Brown/Grey m-f sand 0
Wet

4 Wet
8
9-9 Grey m-f sand 0
9-10 Brown m-f sand 0
Wet
10-12 Grey m-f sand 0

12

Almagia Cont

Mondays 21 May 12

KmBRC

11:00 PB-9 / Tw 4 4.13 Tow

Purged 11.93 Bow
dry

8:00 Onsite

8:45 PB-6 (existing well)

15' well 2" dia

Purged 9 gals

11:10 PB-19 / Tw 9

Purged 1/2 gal

dry

11:15 PB-18 / Tw 8

Purged 1/2 gal

dry

9:35 PB-8 / Tw 3

Purged 3 gals

11:15 PB-17 / Tw 7

Purged 1/2 gal

dry

10:10 PB-4 / Tw 10 3.17 Tow

Only Purged 1 gal

11.85' Bow

dry

* Not purging/sampling

PB-3 / Tw 2

Purged 1/2 gal

dry

10:35 PB-1 / Tw 1 3.35 Tow

Purged 3 gals 11.57 Bow

Order Petro

11:50 Took water sample from BB-6

10:55 PB-12 / Tw 5 4.11 Tow

Purged 1 gal 11.82 Bow

dry

5:00 Off site

22 May 12 Tuesday

8:00 AM Onsite

10:00 Water Sample
PB-8 / Tw8

8:30 Sample water from
PB-17 / Tw7

9:10 Sample water from
PB-18 / Tw8

9:20 Sample water from
PB-9 / Tw9 (Couldn't get a
full sample)

9:35 Sample water from
PB-9 / Tw4

9:45 Sample water from
PB-12 / Tw5

9:55 Sample water from
PB-1 / Tw1

10:00 PB-4 / Tw10

APPENDIX F – ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-65698-1

Client Project/Site: KMBRC

For:

CERM

2296 Henderson Mill Road

Ste 200

Atlanta, Georgia 30345

Attn: Mr. John Wright

Cheyenne Whitmire

Authorized for release by:

6/6/2012 11:12:41 AM

Cheyenne Whitmire

Project Manager II

cheyenne.whitmire@testamericainc.com

Designee for

Carolyn Hooper

Project Manager I

carolyn.hooper@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Job ID: 400-65698-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-65698-1

Receipt

The samples were received on 5/23/2012 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were .6° C and 1.4° C.

GC/MS Semi VOA

Method(s) 8270C LL: The following samples were diluted to bring target analyte concentrations within calibration range: PB-1/TW1 (400-65698-6).

GC Semi VOA

Method(s) 8082: The following sample was diluted due to the nature of the sample matrix: PB-18/TW8 (400-65698-2). Elevated reporting limits (RLs) are provided.

Method(s) 8082: The continuing calibration verification (CCV) for batch 155823 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Organic Prep

Method(s) 3520C: Insufficient sample volume was available to meet method-mandated requirements for matrix spike/matrix spike duplicate (MS/MSD) analyses for batch 155481.

Method(s) 3520C: Insufficient sample volume was available to meet method-mandated requirements for matrix spike/matrix spike duplicate (MS/MSD) analyses for batch 155571.

Sample Summary

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-65698-1	PB-17/TW7	Water	05/22/12 08:30	05/23/12 15:30
400-65698-2	PB-18/TW8	Water	05/22/12 09:10	05/23/12 15:30
400-65698-3	PB-19/TW9	Water	05/22/12 09:20	05/23/12 15:30
400-65698-4	PB-9/TW4	Water	05/22/12 09:35	05/23/12 15:30
400-65698-5	PB-12/TW5	Water	05/22/12 09:45	05/23/12 15:30
400-65698-6	PB-1/TW1	Water	05/22/12 09:55	05/23/12 15:30
400-65698-7	PB-4/TW10	Water	05/22/12 10:00	05/23/12 15:30
400-65698-8	PB-8/TW3	Water	05/22/12 10:10	05/23/12 15:30
400-65698-9	PB-6	Water	05/21/12 13:50	05/23/12 15:30
400-65698-10	DUP	Water	05/21/12 00:00	05/23/12 15:30
400-65698-11	FIELD BLANK	Water	05/23/12 15:30	05/23/12 15:30

Detection Summary

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-17/TW7

Lab Sample ID: 400-65698-1

No Detections

Client Sample ID: PB-18/TW8

Lab Sample ID: 400-65698-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.33	I	11	0.19	ug/L	1		8270C	Total/NA

Client Sample ID: PB-19/TW9

Lab Sample ID: 400-65698-3

No Detections

Client Sample ID: PB-9/TW4

Lab Sample ID: 400-65698-4

No Detections

Client Sample ID: PB-12/TW5

Lab Sample ID: 400-65698-5

No Detections

Client Sample ID: PB-1/TW1

Lab Sample ID: 400-65698-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.2		1.0	0.34	ug/L	1		8260B	Total/NA
Ethylbenzene	11		1.0	0.50	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	9.2		0.21	0.021	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	13		0.21	0.021	ug/L	1		8270C LL	Total/NA
Naphthalene	25		2.1	0.21	ug/L	10		8270C LL	Total/NA

Client Sample ID: PB-4/TW10

Lab Sample ID: 400-65698-7

No Detections

Client Sample ID: PB-8/TW3

Lab Sample ID: 400-65698-8

No Detections

Client Sample ID: PB-6

Lab Sample ID: 400-65698-9

No Detections

Client Sample ID: DUP

Lab Sample ID: 400-65698-10

No Detections

Client Sample ID: FIELD BLANK

Lab Sample ID: 400-65698-11

No Detections

Client Sample Results

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-17/TW7

Date Collected: 05/22/12 08:30

Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-1

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.15	U	9.6	0.15	ug/L	05/29/12 09:51	06/03/12 08:04	1	1
Bis(2-chloroethoxy)methane	0.15	U	9.6	0.15	ug/L	05/29/12 09:51	06/03/12 08:04	1	2
Acenaphthylene	0.16	U	9.6	0.16	ug/L	05/29/12 09:51	06/03/12 08:04	1	3
Anthracene	0.17	U	9.6	0.17	ug/L	05/29/12 09:51	06/03/12 08:04	1	4
Benzidine	19	U	48	19	ug/L	05/29/12 09:51	06/03/12 08:04	1	5
4-Chloro-3-methylphenol	3.7	U	9.6	3.7	ug/L	05/29/12 09:51	06/03/12 08:04	1	6
4,6-Dinitro-2-methylphenol	1.5	U	9.6	1.5	ug/L	05/29/12 09:51	06/03/12 08:04	1	7
4-Nitrophenol	2.0	U	9.6	2.0	ug/L	05/29/12 09:51	06/03/12 08:04	1	8
4-Bromophenyl phenyl ether	0.19	U	9.6	0.19	ug/L	05/29/12 09:51	06/03/12 08:04	1	9
4-Chloroaniline	3.3	U	9.6	3.3	ug/L	05/29/12 09:51	06/03/12 08:04	1	10
4-Chlorophenyl phenyl ether	1.9	U	9.6	1.9	ug/L	05/29/12 09:51	06/03/12 08:04	1	11
4-Nitroaniline	1.4	U	9.6	1.4	ug/L	05/29/12 09:51	06/03/12 08:04	1	12
2-Chlorophenol	2.1	U	9.6	2.1	ug/L	05/29/12 09:51	06/03/12 08:04	1	13
2,4-Dichlorophenol	2.9	U	9.6	2.9	ug/L	05/29/12 09:51	06/03/12 08:04	1	14
2,6-Dichlorophenol	2.0	U	9.6	2.0	ug/L	05/29/12 09:51	06/03/12 08:04	1	15
2,4-Dimethylphenol	3.4	U	9.6	3.4	ug/L	05/29/12 09:51	06/03/12 08:04	1	16
2,4-Dinitrophenol	3.3	U	29	3.3	ug/L	05/29/12 09:51	06/03/12 08:04	1	17
2-Methylphenol	1.7	U	9.6	1.7	ug/L	05/29/12 09:51	06/03/12 08:04	1	18
2-Nitrophenol	5.0	U	9.6	5.0	ug/L	05/29/12 09:51	06/03/12 08:04	1	19
Pentachlorophenol	1.3	U	19	1.3	ug/L	05/29/12 09:51	06/03/12 08:04	1	20
Phenol	2.5	U	9.6	2.5	ug/L	05/29/12 09:51	06/03/12 08:04	1	21
3 & 4 Methylphenol	0.38	U	19	0.38	ug/L	05/29/12 09:51	06/03/12 08:04	1	22
2,4,5-Trichlorophenol	3.6	U	9.6	3.6	ug/L	05/29/12 09:51	06/03/12 08:04	1	23
2,4,6-Trichlorophenol	3.4	U	9.6	3.4	ug/L	05/29/12 09:51	06/03/12 08:04	1	24
Benzo[a]anthracene	0.17	U	9.6	0.17	ug/L	05/29/12 09:51	06/03/12 08:04	1	25
Benzo[a]pyrene	0.12	U	9.6	0.12	ug/L	05/29/12 09:51	06/03/12 08:04	1	26
Benzo[b]fluoranthene	0.14	U	9.6	0.14	ug/L	05/29/12 09:51	06/03/12 08:04	1	27
Benzo[g,h,i]perylene	0.22	U	9.6	0.22	ug/L	05/29/12 09:51	06/03/12 08:04	1	28
Benzo[k]fluoranthene	0.15	U	9.6	0.15	ug/L	05/29/12 09:51	06/03/12 08:04	1	29
Benzyl alcohol	1.9	U	9.6	1.9	ug/L	05/29/12 09:51	06/03/12 08:04	1	30
Butyl benzyl phthalate	0.18	U	9.6	0.18	ug/L	05/29/12 09:51	06/03/12 08:04	1	31
Bis(2-chloroethyl)ether	2.6	U	9.6	2.6	ug/L	05/29/12 09:51	06/03/12 08:04	1	32
2,2'-oxybis[1-chloropropane]	0.15	U	9.6	0.15	ug/L	05/29/12 09:51	06/03/12 08:04	1	33
Bis(2-ethylhexyl) phthalate	1.9	U	9.6	1.9	ug/L	05/29/12 09:51	06/03/12 08:04	1	34
Chrysene	0.18	U	9.6	0.18	ug/L	05/29/12 09:51	06/03/12 08:04	1	35
Dibenz(a,h)anthracene	0.23	U	9.6	0.23	ug/L	05/29/12 09:51	06/03/12 08:04	1	36
Dibenzo furan	0.16	U	9.6	0.16	ug/L	05/29/12 09:51	06/03/12 08:04	1	37
Di-n-butyl phthalate	2.6	U	9.6	2.6	ug/L	05/29/12 09:51	06/03/12 08:04	1	38
Di-n-octyl phthalate	0.16	U	9.6	0.16	ug/L	05/29/12 09:51	06/03/12 08:04	1	39
Fluoranthene	0.17	U	9.6	0.17	ug/L	05/29/12 09:51	06/03/12 08:04	1	40
Fluorene	0.17	U	9.6	0.17	ug/L	05/29/12 09:51	06/03/12 08:04	1	41
Hexachlorobenzene	0.16	U	9.6	0.16	ug/L	05/29/12 09:51	06/03/12 08:04	1	42
Hexachlorobutadiene	3.5	U	9.6	3.5	ug/L	05/29/12 09:51	06/03/12 08:04	1	43
Hexachlorocyclopentadiene	2.5	U	19	2.5	ug/L	05/29/12 09:51	06/03/12 08:04	1	44
Hexachloroethane	4.0	U	9.6	4.0	ug/L	05/29/12 09:51	06/03/12 08:04	1	45
Indeno[1,2,3-cd]pyrene	0.21	U	9.6	0.21	ug/L	05/29/12 09:51	06/03/12 08:04	1	46
Isophorone	0.13	U	9.6	0.13	ug/L	05/29/12 09:51	06/03/12 08:04	1	47
Naphthalene	0.16	U	9.6	0.16	ug/L	05/29/12 09:51	06/03/12 08:04	1	48
N-Nitrosodi-n-butylamine	4.1	U	9.6	4.1	ug/L	05/29/12 09:51	06/03/12 08:04	1	49
N-Nitrosodimethylamine	3.4	U	9.6	3.4	ug/L	05/29/12 09:51	06/03/12 08:04	1	50
N-Nitrosodiphenylamine	0.17	U	9.6	0.17	ug/L	05/29/12 09:51	06/03/12 08:04	1	51

Client Sample Results

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-17/TW7
Date Collected: 05/22/12 08:30
Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	3.2	U	9.6	3.2	ug/L		05/29/12 09:51	06/03/12 08:04	1
Phenanthrene	0.17	U	9.6	0.17	ug/L		05/29/12 09:51	06/03/12 08:04	1
Pyrene	0.20	U	9.6	0.20	ug/L		05/29/12 09:51	06/03/12 08:04	1
1,2-Dichlorobenzene	0.16	U	9.6	0.16	ug/L		05/29/12 09:51	06/03/12 08:04	1
1,3-Dichlorobenzene	0.17	U	9.6	0.17	ug/L		05/29/12 09:51	06/03/12 08:04	1
1,4-Dichlorobenzene	0.15	U	9.6	0.15	ug/L		05/29/12 09:51	06/03/12 08:04	1
2-Chloronaphthalene	0.13	U	9.6	0.13	ug/L		05/29/12 09:51	06/03/12 08:04	1
3,3'-Dichlorobenzidine	2.5	U	9.6	2.5	ug/L		05/29/12 09:51	06/03/12 08:04	1
Diethyl phthalate	0.23	U	9.6	0.23	ug/L		05/29/12 09:51	06/03/12 08:04	1
Dimethyl phthalate	0.16	U	9.6	0.16	ug/L		05/29/12 09:51	06/03/12 08:04	1
2,4-Dinitrotoluene	1.8	U	9.6	1.8	ug/L		05/29/12 09:51	06/03/12 08:04	1
2,6-Dinitrotoluene	1.8	U	9.6	1.8	ug/L		05/29/12 09:51	06/03/12 08:04	1
1,2-Diphenylhydrazine	2.6	U	9.6	2.6	ug/L		05/29/12 09:51	06/03/12 08:04	1
1-Methylnaphthalene	0.14	U	9.6	0.14	ug/L		05/29/12 09:51	06/03/12 08:04	1
2-Methylnaphthalene	0.13	U	9.6	0.13	ug/L		05/29/12 09:51	06/03/12 08:04	1
2-Nitroaniline	2.1	U	9.6	2.1	ug/L		05/29/12 09:51	06/03/12 08:04	1
3-Nitroaniline	1.7	U	9.6	1.7	ug/L		05/29/12 09:51	06/03/12 08:04	1
Nitrobenzene	0.13	U	9.6	0.13	ug/L		05/29/12 09:51	06/03/12 08:04	1
1,2,4-Trichlorobenzene	0.17	U	9.6	0.17	ug/L		05/29/12 09:51	06/03/12 08:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		15 - 135				05/29/12 09:51	06/03/12 08:04	1
2-Fluorobiphenyl	64		34 - 113				05/29/12 09:51	06/03/12 08:04	1
2-Fluorophenol	44		10 - 104				05/29/12 09:51	06/03/12 08:04	1
Nitrobenzene-d5	61		27 - 110				05/29/12 09:51	06/03/12 08:04	1
Phenol-d5	42		10 - 110				05/29/12 09:51	06/03/12 08:04	1
Terphenyl-d14	79		53 - 125				05/29/12 09:51	06/03/12 08:04	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.069	U	0.71	0.069	ug/L		05/26/12 10:07	05/29/12 18:11	1
PCB-1221	0.31	U	0.71	0.31	ug/L		05/26/12 10:07	05/29/12 18:11	1
PCB-1232	0.14	U	0.71	0.14	ug/L		05/26/12 10:07	05/29/12 18:11	1
PCB-1242	0.049	U	0.71	0.049	ug/L		05/26/12 10:07	05/29/12 18:11	1
PCB-1248	0.029	U	0.71	0.029	ug/L		05/26/12 10:07	05/29/12 18:11	1
PCB-1254	0.081	U	0.71	0.081	ug/L		05/26/12 10:07	05/29/12 18:11	1
PCB-1260	0.049	U	0.71	0.049	ug/L		05/26/12 10:07	05/29/12 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	40		10 - 125				05/26/12 10:07	05/29/12 18:11	1
Tetrachloro-m-xylene	105		46 - 150				05/26/12 10:07	05/29/12 18:11	1

Client Sample Results

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-18/TW8

Date Collected: 05/22/12 09:10

Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-2

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.18	U	11	0.18	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Bis(2-chloroethoxy)methane	0.18	U	11	0.18	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Acenaphthylene	0.19	U	11	0.19	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Anthracene	0.20	U	11	0.20	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Benzidine	22	U	56	22	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
4-Chloro-3-methylphenol	4.2	U	11	4.2	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
4,6-Dinitro-2-methylphenol	1.8	U	11	1.8	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
4-Nitrophenol	2.3	U	11	2.3	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
4-Bromophenyl phenyl ether	0.22	U	11	0.22	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
4-Chloroaniline	3.8	U	11	3.8	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
4-Chlorophenyl phenyl ether	2.2	U	11	2.2	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
4-Nitroaniline	1.7	U	11	1.7	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
2-Chlorophenol	2.4	U	11	2.4	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
2,4-Dichlorophenol	3.3	U	11	3.3	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
2,6-Dichlorophenol	2.3	U	11	2.3	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
2,4-Dimethylphenol	3.9	U	11	3.9	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
2,4-Dinitrophenol	3.8	U	33	3.8	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
2-Methylphenol	2.0	U	11	2.0	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
2-Nitrophenol	5.8	U	11	5.8	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Pentachlorophenol	1.6	U	22	1.6	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Phenol	2.9	U	11	2.9	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
3 & 4 Methylphenol	0.43	U	22	0.43	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
2,4,5-Trichlorophenol	4.1	U	11	4.1	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
2,4,6-Trichlorophenol	3.9	U	11	3.9	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Benzo[a]anthracene	0.20	U	11	0.20	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Benzo[a]pyrene	0.13	U	11	0.13	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Benzo[b]fluoranthene	0.17	U	11	0.17	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Benzo[g,h,i]perylene	0.26	U	11	0.26	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Benzo[k]fluoranthene	0.18	U	11	0.18	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Benzyl alcohol	2.2	U	11	2.2	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Butyl benzyl phthalate	0.21	U	11	0.21	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Bis(2-chloroethyl)ether	3.0	U	11	3.0	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
2,2'-oxybis[1-chloropropane]	0.18	U	11	0.18	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Bis(2-ethylhexyl) phthalate	2.2	U	11	2.2	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Chrysene	0.21	U	11	0.21	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Dibenz(a,h)anthracene	0.27	U	11	0.27	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Dibenzo furan	0.19	U	11	0.19	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Di-n-butyl phthalate	3.0	U	11	3.0	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Di-n-octyl phthalate	0.19	U	11	0.19	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Fluoranthene	0.20	U	11	0.20	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Fluorene	0.20	U	11	0.20	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Hexachlorobenzene	0.19	U	11	0.19	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Hexachlorobutadiene	4.0	U	11	4.0	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Hexachlorocyclopentadiene	2.9	U	22	2.9	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Hexachloroethane	4.7	U	11	4.7	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Indeno[1,2,3-cd]pyrene	0.24	U	11	0.24	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Isophorone	0.16	U	11	0.16	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
Naphthalene	0.33	I	11	0.19	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
N-Nitrosodi-n-butylamine	4.8	U	11	4.8	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
N-Nitrosodimethylamine	3.9	U	11	3.9	ug/L	05/29/12 09:51	06/03/12 16:15	1	1
N-Nitrosodiphenylamine	0.20	U	11	0.20	ug/L	05/29/12 09:51	06/03/12 16:15	1	1

Client Sample Results

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-18/TW8
Date Collected: 05/22/12 09:10
Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	3.7	U	11	3.7	ug/L		05/29/12 09:51	06/03/12 16:15	1
Phenanthrene	0.20	U	11	0.20	ug/L		05/29/12 09:51	06/03/12 16:15	1
Pyrene	0.23	U	11	0.23	ug/L		05/29/12 09:51	06/03/12 16:15	1
1,2-Dichlorobenzene	0.19	U	11	0.19	ug/L		05/29/12 09:51	06/03/12 16:15	1
1,3-Dichlorobenzene	0.20	U	11	0.20	ug/L		05/29/12 09:51	06/03/12 16:15	1
1,4-Dichlorobenzene	0.18	U	11	0.18	ug/L		05/29/12 09:51	06/03/12 16:15	1
2-Chloronaphthalene	0.16	U	11	0.16	ug/L		05/29/12 09:51	06/03/12 16:15	1
3,3'-Dichlorobenzidine	2.9	U	11	2.9	ug/L		05/29/12 09:51	06/03/12 16:15	1
Diethyl phthalate	0.27	U	11	0.27	ug/L		05/29/12 09:51	06/03/12 16:15	1
Dimethyl phthalate	0.19	U	11	0.19	ug/L		05/29/12 09:51	06/03/12 16:15	1
2,4-Dinitrotoluene	2.1	U	11	2.1	ug/L		05/29/12 09:51	06/03/12 16:15	1
2,6-Dinitrotoluene	2.1	U	11	2.1	ug/L		05/29/12 09:51	06/03/12 16:15	1
1,2-Diphenylhydrazine	3.0	U	11	3.0	ug/L		05/29/12 09:51	06/03/12 16:15	1
1-Methylnaphthalene	0.17	U	11	0.17	ug/L		05/29/12 09:51	06/03/12 16:15	1
2-Methylnaphthalene	0.14	U	11	0.14	ug/L		05/29/12 09:51	06/03/12 16:15	1
2-Nitroaniline	2.4	U	11	2.4	ug/L		05/29/12 09:51	06/03/12 16:15	1
3-Nitroaniline	2.0	U	11	2.0	ug/L		05/29/12 09:51	06/03/12 16:15	1
Nitrobenzene	0.14	U	11	0.14	ug/L		05/29/12 09:51	06/03/12 16:15	1
1,2,4-Trichlorobenzene	0.20	U	11	0.20	ug/L		05/29/12 09:51	06/03/12 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	82		15 - 135				05/29/12 09:51	06/03/12 16:15	1
2-Fluorobiphenyl	71		34 - 113				05/29/12 09:51	06/03/12 16:15	1
2-Fluorophenol	47		10 - 104				05/29/12 09:51	06/03/12 16:15	1
Nitrobenzene-d5	71		27 - 110				05/29/12 09:51	06/03/12 16:15	1
Phenol-d5	51		10 - 110				05/29/12 09:51	06/03/12 16:15	1
Terphenyl-d14	92		53 - 125				05/29/12 09:51	06/03/12 16:15	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.25	U	2.6	0.25	ug/L		05/26/12 10:07	05/29/12 18:29	5
PCB-1221	1.2	U	2.6	1.2	ug/L		05/26/12 10:07	05/29/12 18:29	5
PCB-1232	0.53	U	2.6	0.53	ug/L		05/26/12 10:07	05/29/12 18:29	5
PCB-1242	0.18	U	2.6	0.18	ug/L		05/26/12 10:07	05/29/12 18:29	5
PCB-1248	0.11	U	2.6	0.11	ug/L		05/26/12 10:07	05/29/12 18:29	5
PCB-1254	0.30	U	2.6	0.30	ug/L		05/26/12 10:07	05/29/12 18:29	5
PCB-1260	0.18	U	2.6	0.18	ug/L		05/26/12 10:07	05/29/12 18:29	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	31		10 - 125				05/26/12 10:07	05/29/12 18:29	5
Tetrachloro-m-xylene	101		46 - 150				05/26/12 10:07	05/29/12 18:29	5

Client Sample Results

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-19/TW9

Date Collected: 05/22/12 09:20

Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-3

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.23	U	14	0.23	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Bis(2-chloroethoxy)methane	0.23	U	14	0.23	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Acenaphthylene	0.24	U	14	0.24	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Anthracene	0.26	U	14	0.26	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Benzidine	29	U	71	29	ug/L	05/29/12 09:51	06/03/12 16:46	1	
4-Chloro-3-methylphenol	5.4	U	14	5.4	ug/L	05/29/12 09:51	06/03/12 16:46	1	
4,6-Dinitro-2-methylphenol	2.3	U	14	2.3	ug/L	05/29/12 09:51	06/03/12 16:46	1	
4-Nitrophenol	3.0	U	14	3.0	ug/L	05/29/12 09:51	06/03/12 16:46	1	
4-Bromophenyl phenyl ether	0.29	U	14	0.29	ug/L	05/29/12 09:51	06/03/12 16:46	1	
4-Chloroaniline	4.9	U	14	4.9	ug/L	05/29/12 09:51	06/03/12 16:46	1	
4-Chlorophenyl phenyl ether	2.9	U	14	2.9	ug/L	05/29/12 09:51	06/03/12 16:46	1	
4-Nitroaniline	2.1	U	14	2.1	ug/L	05/29/12 09:51	06/03/12 16:46	1	
2-Chlorophenol	3.1	U	14	3.1	ug/L	05/29/12 09:51	06/03/12 16:46	1	
2,4-Dichlorophenol	4.3	U	14	4.3	ug/L	05/29/12 09:51	06/03/12 16:46	1	
2,6-Dichlorophenol	3.0	U	14	3.0	ug/L	05/29/12 09:51	06/03/12 16:46	1	
2,4-Dimethylphenol	5.0	U	14	5.0	ug/L	05/29/12 09:51	06/03/12 16:46	1	
2,4-Dinitrophenol	4.9	U	43	4.9	ug/L	05/29/12 09:51	06/03/12 16:46	1	
2-Methylphenol	2.6	U	14	2.6	ug/L	05/29/12 09:51	06/03/12 16:46	1	
2-Nitrophenol	7.4	U	14	7.4	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Pentachlorophenol	2.0	U	29	2.0	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Phenol	3.7	U	14	3.7	ug/L	05/29/12 09:51	06/03/12 16:46	1	
3 & 4 Methylphenol	0.56	U	29	0.56	ug/L	05/29/12 09:51	06/03/12 16:46	1	
2,4,5-Trichlorophenol	5.3	U	14	5.3	ug/L	05/29/12 09:51	06/03/12 16:46	1	
2,4,6-Trichlorophenol	5.0	U	14	5.0	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Benzo[a]anthracene	0.26	U	14	0.26	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Benzo[a]pyrene	0.17	U	14	0.17	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Benzo[b]fluoranthene	0.21	U	14	0.21	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Benzo[g,h,i]perylene	0.33	U	14	0.33	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Benzo[k]fluoranthene	0.23	U	14	0.23	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Benzyl alcohol	2.9	U	14	2.9	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Butyl benzyl phthalate	0.27	U	14	0.27	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Bis(2-chloroethyl)ether	3.9	U	14	3.9	ug/L	05/29/12 09:51	06/03/12 16:46	1	
2,2'-oxybis[1-chloropropane]	0.23	U	14	0.23	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Bis(2-ethylhexyl) phthalate	2.9	U	14	2.9	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Chrysene	0.27	U	14	0.27	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Dibenz(a,h)anthracene	0.34	U	14	0.34	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Dibenzo furan	0.24	U	14	0.24	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Di-n-butyl phthalate	3.9	U	14	3.9	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Di-n-octyl phthalate	0.24	U	14	0.24	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Fluoranthene	0.26	U	14	0.26	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Fluorene	0.26	U	14	0.26	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Hexachlorobenzene	0.24	U	14	0.24	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Hexachlorobutadiene	5.1	U	14	5.1	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Hexachlorocyclopentadiene	3.7	U	29	3.7	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Hexachloroethane	6.0	U	14	6.0	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Indeno[1,2,3-cd]pyrene	0.31	U	14	0.31	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Isophorone	0.20	U	14	0.20	ug/L	05/29/12 09:51	06/03/12 16:46	1	
Naphthalene	0.24	U	14	0.24	ug/L	05/29/12 09:51	06/03/12 16:46	1	
N-Nitrosodi-n-butylamine	6.1	U	14	6.1	ug/L	05/29/12 09:51	06/03/12 16:46	1	
N-Nitrosodimethylamine	5.0	U	14	5.0	ug/L	05/29/12 09:51	06/03/12 16:46	1	
N-Nitrosodiphenylamine	0.26	U	14	0.26	ug/L	05/29/12 09:51	06/03/12 16:46	1	

Client Sample Results

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-19/TW9
Date Collected: 05/22/12 09:20
Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	4.7	U	14	4.7	ug/L		05/29/12 09:51	06/03/12 16:46	1
Phenanthrene	0.26	U	14	0.26	ug/L		05/29/12 09:51	06/03/12 16:46	1
Pyrene	0.30	U	14	0.30	ug/L		05/29/12 09:51	06/03/12 16:46	1
1,2-Dichlorobenzene	0.24	U	14	0.24	ug/L		05/29/12 09:51	06/03/12 16:46	1
1,3-Dichlorobenzene	0.26	U	14	0.26	ug/L		05/29/12 09:51	06/03/12 16:46	1
1,4-Dichlorobenzene	0.23	U	14	0.23	ug/L		05/29/12 09:51	06/03/12 16:46	1
2-Chloronaphthalene	0.20	U	14	0.20	ug/L		05/29/12 09:51	06/03/12 16:46	1
3,3'-Dichlorobenzidine	3.7	U	14	3.7	ug/L		05/29/12 09:51	06/03/12 16:46	1
Diethyl phthalate	0.34	U	14	0.34	ug/L		05/29/12 09:51	06/03/12 16:46	1
Dimethyl phthalate	0.24	U	14	0.24	ug/L		05/29/12 09:51	06/03/12 16:46	1
2,4-Dinitrotoluene	2.7	U	14	2.7	ug/L		05/29/12 09:51	06/03/12 16:46	1
2,6-Dinitrotoluene	2.7	U	14	2.7	ug/L		05/29/12 09:51	06/03/12 16:46	1
1,2-Diphenylhydrazine	3.9	U	14	3.9	ug/L		05/29/12 09:51	06/03/12 16:46	1
1-Methylnaphthalene	0.21	U	14	0.21	ug/L		05/29/12 09:51	06/03/12 16:46	1
2-Methylnaphthalene	0.19	U	14	0.19	ug/L		05/29/12 09:51	06/03/12 16:46	1
2-Nitroaniline	3.1	U	14	3.1	ug/L		05/29/12 09:51	06/03/12 16:46	1
3-Nitroaniline	2.6	U	14	2.6	ug/L		05/29/12 09:51	06/03/12 16:46	1
Nitrobenzene	0.19	U	14	0.19	ug/L		05/29/12 09:51	06/03/12 16:46	1
1,2,4-Trichlorobenzene	0.26	U	14	0.26	ug/L		05/29/12 09:51	06/03/12 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		15 - 135				05/29/12 09:51	06/03/12 16:46	1
2-Fluorobiphenyl	60		34 - 113				05/29/12 09:51	06/03/12 16:46	1
2-Fluorophenol	38		10 - 104				05/29/12 09:51	06/03/12 16:46	1
Nitrobenzene-d5	56		27 - 110				05/29/12 09:51	06/03/12 16:46	1
Phenol-d5	38		10 - 110				05/29/12 09:51	06/03/12 16:46	1
Terphenyl-d14	92		53 - 125				05/29/12 09:51	06/03/12 16:46	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.096	U	1.0	0.096	ug/L		05/26/12 10:07	05/29/12 18:47	1
PCB-1221	0.44	U	1.0	0.44	ug/L		05/26/12 10:07	05/29/12 18:47	1
PCB-1232	0.20	U	1.0	0.20	ug/L		05/26/12 10:07	05/29/12 18:47	1
PCB-1242	0.068	U	1.0	0.068	ug/L		05/26/12 10:07	05/29/12 18:47	1
PCB-1248	0.040	U	1.0	0.040	ug/L		05/26/12 10:07	05/29/12 18:47	1
PCB-1254	0.11	U	1.0	0.11	ug/L		05/26/12 10:07	05/29/12 18:47	1
PCB-1260	0.068	U	1.0	0.068	ug/L		05/26/12 10:07	05/29/12 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	54		10 - 125				05/26/12 10:07	05/29/12 18:47	1
Tetrachloro-m-xylene	92		46 - 150				05/26/12 10:07	05/29/12 18:47	1

Client Sample Results

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-9/TW4

Lab Sample ID: 400-65698-4

Date Collected: 05/22/12 09:35

Matrix: Water

Date Received: 05/23/12 15:30

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.34	U	1.0	0.34	ug/L			05/29/12 20:46	1
Toluene	0.70	U	1.0	0.70	ug/L			05/29/12 20:46	1
Ethylbenzene	0.50	U	1.0	0.50	ug/L			05/29/12 20:46	1
Xylenes, Total	1.6	U	10	1.6	ug/L			05/29/12 20:46	1
Methyl tert-butyl ether	0.74	U	1.0	0.74	ug/L			05/29/12 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		79 - 118					05/29/12 20:46	1
Dibromofluoromethane	104		79 - 119					05/29/12 20:46	1
Toluene-d8 (Surr)	99		80 - 120					05/29/12 20:46	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 11:25	1
Acenaphthylene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 11:25	1
Anthracene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 11:25	1
Benzo[a]anthracene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 11:25	1
Benzo[a]pyrene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 11:25	1
Benzo[b]fluoranthene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 11:25	1
Benzo[g,h,i]perylene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 11:25	1
Benzo[k]fluoranthene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 11:25	1
Chrysene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 11:25	1
Dibenz(a,h)anthracene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 11:25	1
Fluoranthene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 11:25	1
Fluorene	0.022	U	0.21	0.022	ug/L		05/25/12 09:07	05/31/12 11:25	1
Indeno[1,2,3-cd]pyrene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 11:25	1
1-Methylnaphthalene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 11:25	1
2-Methylnaphthalene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 11:25	1
Naphthalene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 11:25	1
Phenanthrene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 11:25	1
Pyrene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 11:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		31 - 121					05/25/12 09:07	1
Nitrobenzene-d5	93		39 - 126					05/25/12 09:07	1
Terphenyl-d14	123		63 - 137					05/25/12 09:07	1

Client Sample Results

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-12/TW5**Lab Sample ID: 400-65698-5**

Date Collected: 05/22/12 09:45

Matrix: Water

Date Received: 05/23/12 15:30

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.34	U	1.0	0.34	ug/L			05/29/12 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		79 - 118					05/29/12 21:07	1
Dibromofluoromethane	107		79 - 119					05/29/12 21:07	1
Toluene-d8 (Surr)	99		80 - 120					05/29/12 21:07	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.021	U	0.21	0.021	ug/L			05/31/12 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Acenaphthylene	0.021	U	79 - 118					05/31/12 11:56	1
Anthracene	0.021	U	79 - 119					05/31/12 11:56	1
Benzo[a]anthracene	0.042	U	80 - 120					05/31/12 11:56	1
Benzo[a]pyrene	0.042	U	80 - 120					05/31/12 11:56	1
Benzo[b]fluoranthene	0.042	U	80 - 120					05/31/12 11:56	1
Benzo[g,h,i]perylene	0.042	U	80 - 120					05/31/12 11:56	1
Benzo[k]fluoranthene	0.042	U	80 - 120					05/31/12 11:56	1
Chrysene	0.042	U	80 - 120					05/31/12 11:56	1
Dibenz(a,h)anthracene	0.042	U	80 - 120					05/31/12 11:56	1
Fluoranthene	0.021	U	80 - 120					05/31/12 11:56	1
Fluorene	0.022	U	80 - 120					05/31/12 11:56	1
Indeno[1,2,3-cd]pyrene	0.042	U	80 - 120					05/31/12 11:56	1
1-Methylnaphthalene	0.021	U	80 - 120					05/31/12 11:56	1
2-Methylnaphthalene	0.021	U	80 - 120					05/31/12 11:56	1
Naphthalene	0.021	U	80 - 120					05/31/12 11:56	1
Phenanthrene	0.021	U	80 - 120					05/31/12 11:56	1
Pyrene	0.021	U	80 - 120					05/31/12 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		31 - 121					05/31/12 11:56	1
Nitrobenzene-d5	82		39 - 126					05/31/12 11:56	1
Terphenyl-d14	106		63 - 137					05/31/12 11:56	1

Client Sample Results

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-1/TW1**Lab Sample ID: 400-65698-6**

Date Collected: 05/22/12 09:55

Matrix: Water

Date Received: 05/23/12 15:30

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.2		1.0	0.34	ug/L			05/29/12 21:27	1
Toluene	0.70	U	1.0	0.70	ug/L			05/29/12 21:27	1
Ethylbenzene	11		1.0	0.50	ug/L			05/29/12 21:27	1
Xylenes, Total	1.6	U	10	1.6	ug/L			05/29/12 21:27	1
Methyl tert-butyl ether	0.74	U	1.0	0.74	ug/L			05/29/12 21:27	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95			79 - 118				05/29/12 21:27	1
Dibromofluoromethane	106			79 - 119				05/29/12 21:27	1
Toluene-d8 (Surr)	101			80 - 120				05/29/12 21:27	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:28	1
Acenaphthylene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:28	1
Anthracene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:28	1
Benzo[a]anthracene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:28	1
Benzo[a]pyrene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:28	1
Benzo[b]fluoranthene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:28	1
Benzo[g,h,i]perylene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:28	1
Benzo[k]fluoranthene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:28	1
Chrysene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:28	1
Dibenz(a,h)anthracene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:28	1
Fluoranthene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:28	1
Fluorene	0.022	U	0.21	0.022	ug/L		05/25/12 09:07	05/31/12 12:28	1
Indeno[1,2,3-cd]pyrene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:28	1
1-Methylnaphthalene	9.2		0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:28	1
2-Methylnaphthalene	13		0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:28	1
Naphthalene	25		2.1	0.21	ug/L		05/25/12 09:07	05/31/12 20:45	10
Phenanthrene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:28	1
Pyrene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:28	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74			31 - 121			05/25/12 09:07	05/31/12 12:28	1
Nitrobenzene-d5	85			39 - 126			05/25/12 09:07	05/31/12 12:28	1
Terphenyl-d14	100			63 - 137			05/25/12 09:07	05/31/12 12:28	1

Client Sample Results

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-4/TW10

Lab Sample ID: 400-65698-7

Matrix: Water

Date Collected: 05/22/12 10:00

Date Received: 05/23/12 15:30

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.34	U	1.0	0.34	ug/L			05/29/12 21:48	1
Toluene	0.70	U	1.0	0.70	ug/L			05/29/12 21:48	1
Ethylbenzene	0.50	U	1.0	0.50	ug/L			05/29/12 21:48	1
Xylenes, Total	1.6	U	10	1.6	ug/L			05/29/12 21:48	1
Methyl tert-butyl ether	0.74	U	1.0	0.74	ug/L			05/29/12 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		79 - 118					05/29/12 21:48	1
Dibromofluoromethane	105		79 - 119					05/29/12 21:48	1
Toluene-d8 (Surr)	99		80 - 120					05/29/12 21:48	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:59	1
Acenaphthylene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:59	1
Anthracene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:59	1
Benzo[a]anthracene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:59	1
Benzo[a]pyrene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:59	1
Benzo[b]fluoranthene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:59	1
Benzo[g,h,i]perylene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:59	1
Benzo[k]fluoranthene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:59	1
Chrysene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:59	1
Dibenz(a,h)anthracene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:59	1
Fluoranthene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:59	1
Fluorene	0.022	U	0.21	0.022	ug/L		05/25/12 09:07	05/31/12 12:59	1
Indeno[1,2,3-cd]pyrene	0.042	U	0.21	0.042	ug/L		05/25/12 09:07	05/31/12 12:59	1
1-Methylnaphthalene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:59	1
2-Methylnaphthalene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:59	1
Naphthalene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:59	1
Phenanthrene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:59	1
Pyrene	0.021	U	0.21	0.021	ug/L		05/25/12 09:07	05/31/12 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		31 - 121				05/25/12 09:07	05/31/12 12:59	1
Nitrobenzene-d5	82		39 - 126				05/25/12 09:07	05/31/12 12:59	1
Terphenyl-d14	94		63 - 137				05/25/12 09:07	05/31/12 12:59	1

Client Sample Results

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-8/TW3

Lab Sample ID: 400-65698-8

Date Collected: 05/22/12 10:10

Matrix: Water

Date Received: 05/23/12 15:30

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.34	U	1.0	0.34	ug/L			05/29/12 22:08	1
Toluene	0.70	U	1.0	0.70	ug/L			05/29/12 22:08	1
Ethylbenzene	0.50	U	1.0	0.50	ug/L			05/29/12 22:08	1
Xylenes, Total	1.6	U	10	1.6	ug/L			05/29/12 22:08	1
Methyl tert-butyl ether	0.74	U	1.0	0.74	ug/L			05/29/12 22:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		79 - 118					05/29/12 22:08	1
Dibromofluoromethane	105		79 - 119					05/29/12 22:08	1
Toluene-d8 (Surr)	100		80 - 120					05/29/12 22:08	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 13:30	1
Acenaphthylene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 13:30	1
Anthracene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 13:30	1
Benzo[a]anthracene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 13:30	1
Benzo[a]pyrene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 13:30	1
Benzo[b]fluoranthene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 13:30	1
Benzo[g,h,i]perylene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 13:30	1
Benzo[k]fluoranthene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 13:30	1
Chrysene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 13:30	1
Dibenz(a,h)anthracene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 13:30	1
Fluoranthene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 13:30	1
Fluorene	0.021	U	0.20	0.021	ug/L		05/25/12 09:07	05/31/12 13:30	1
Indeno[1,2,3-cd]pyrene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 13:30	1
1-Methylnaphthalene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 13:30	1
2-Methylnaphthalene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 13:30	1
Naphthalene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 13:30	1
Phenanthrene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 13:30	1
Pyrene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		31 - 121					05/25/12 09:07	1
Nitrobenzene-d5	83		39 - 126					05/25/12 09:07	1
Terphenyl-d14	102		63 - 137					05/25/12 09:07	1

Client Sample Results

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-6

Date Collected: 05/21/12 13:50

Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-9

Matrix: Water

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.34	U	1.0	0.34	ug/L			05/29/12 22:29	1
Toluene	0.70	U	1.0	0.70	ug/L			05/29/12 22:29	1
Ethylbenzene	0.50	U	1.0	0.50	ug/L			05/29/12 22:29	1
Xylenes, Total	1.6	U	10	1.6	ug/L			05/29/12 22:29	1
Methyl tert-butyl ether	0.74	U	1.0	0.74	ug/L			05/29/12 22:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		79 - 118					05/29/12 22:29	1
Dibromofluoromethane	105		79 - 119					05/29/12 22:29	1
Toluene-d8 (Surr)	98		80 - 120					05/29/12 22:29	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.019	U	0.19	0.019	ug/L		05/25/12 09:07	05/31/12 14:01	1
Acenaphthylene	0.019	U	0.19	0.019	ug/L		05/25/12 09:07	05/31/12 14:01	1
Anthracene	0.019	U	0.19	0.019	ug/L		05/25/12 09:07	05/31/12 14:01	1
Benzo[a]anthracene	0.038	U	0.19	0.038	ug/L		05/25/12 09:07	05/31/12 14:01	1
Benzo[a]pyrene	0.038	U	0.19	0.038	ug/L		05/25/12 09:07	05/31/12 14:01	1
Benzo[b]fluoranthene	0.038	U	0.19	0.038	ug/L		05/25/12 09:07	05/31/12 14:01	1
Benzo[g,h,i]perylene	0.038	U	0.19	0.038	ug/L		05/25/12 09:07	05/31/12 14:01	1
Benzo[k]fluoranthene	0.038	U	0.19	0.038	ug/L		05/25/12 09:07	05/31/12 14:01	1
Chrysene	0.038	U	0.19	0.038	ug/L		05/25/12 09:07	05/31/12 14:01	1
Dibenz(a,h)anthracene	0.038	U	0.19	0.038	ug/L		05/25/12 09:07	05/31/12 14:01	1
Fluoranthene	0.019	U	0.19	0.019	ug/L		05/25/12 09:07	05/31/12 14:01	1
Fluorene	0.020	U	0.19	0.020	ug/L		05/25/12 09:07	05/31/12 14:01	1
Indeno[1,2,3-cd]pyrene	0.038	U	0.19	0.038	ug/L		05/25/12 09:07	05/31/12 14:01	1
1-Methylnaphthalene	0.019	U	0.19	0.019	ug/L		05/25/12 09:07	05/31/12 14:01	1
2-Methylnaphthalene	0.019	U	0.19	0.019	ug/L		05/25/12 09:07	05/31/12 14:01	1
Naphthalene	0.019	U	0.19	0.019	ug/L		05/25/12 09:07	05/31/12 14:01	1
Phenanthrene	0.019	U	0.19	0.019	ug/L		05/25/12 09:07	05/31/12 14:01	1
Pyrene	0.019	U	0.19	0.019	ug/L		05/25/12 09:07	05/31/12 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		31 - 121					05/25/12 09:07	1
Nitrobenzene-d5	80		39 - 126					05/25/12 09:07	1
Terphenyl-d14	96		63 - 137					05/25/12 09:07	1

Client Sample Results

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: DUP

Date Collected: 05/21/12 00:00

Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-10

Matrix: Water

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.34	U	1.0	0.34	ug/L			05/29/12 22:49	1
Toluene	0.70	U	1.0	0.70	ug/L			05/29/12 22:49	1
Ethylbenzene	0.50	U	1.0	0.50	ug/L			05/29/12 22:49	1
Xylenes, Total	1.6	U	10	1.6	ug/L			05/29/12 22:49	1
Methyl tert-butyl ether	0.74	U	1.0	0.74	ug/L			05/29/12 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		79 - 118					05/29/12 22:49	1
Dibromofluoromethane	105		79 - 119					05/29/12 22:49	1
Toluene-d8 (Surr)	99		80 - 120					05/29/12 22:49	1

Client Sample Results

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: FIELD BLANK**Lab Sample ID: 400-65698-11**

Date Collected: 05/23/12 15:30

Matrix: Water

Date Received: 05/23/12 15:30

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.34	U	1.0	0.34	ug/L			05/29/12 23:10	1
Toluene	0.70	U	1.0	0.70	ug/L			05/29/12 23:10	1
Ethylbenzene	0.50	U	1.0	0.50	ug/L			05/29/12 23:10	1
Xylenes, Total	1.6	U	10	1.6	ug/L			05/29/12 23:10	1
Methyl tert-butyl ether	0.74	U	1.0	0.74	ug/L			05/29/12 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		79 - 118		05/29/12 23:10	1
Dibromofluoromethane	105		79 - 119		05/29/12 23:10	1
Toluene-d8 (Surr)	99		80 - 120		05/29/12 23:10	1

Definitions/Glossary

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

◊	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Method	Method Description	Protocol	Laboratory
8260B	BTEX+MTBE	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-17/TW7

Lab Sample ID: 400-65698-1

Matrix: Water

Date Collected: 05/22/12 08:30

Date Received: 05/23/12 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			155613	05/29/12 09:51	KH	TAL PEN
Total/NA	Analysis	8270C		1	155957	06/03/12 08:04	RW	TAL PEN
Total/NA	Prep	3520C			155571	05/26/12 10:07	KH	TAL PEN
Total/NA	Analysis	8082		1	155823	05/29/12 18:11	VC	TAL PEN

Client Sample ID: PB-18/TW8

Lab Sample ID: 400-65698-2

Matrix: Water

Date Collected: 05/22/12 09:10

Date Received: 05/23/12 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			155613	05/29/12 09:51	KH	TAL PEN
Total/NA	Analysis	8270C		1	155965	06/03/12 16:15	JP	TAL PEN
Total/NA	Prep	3520C			155571	05/26/12 10:07	KH	TAL PEN
Total/NA	Analysis	8082		5	155823	05/29/12 18:29	VC	TAL PEN

Client Sample ID: PB-19/TW9

Lab Sample ID: 400-65698-3

Matrix: Water

Date Collected: 05/22/12 09:20

Date Received: 05/23/12 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			155613	05/29/12 09:51	KH	TAL PEN
Total/NA	Analysis	8270C		1	155965	06/03/12 16:46	JP	TAL PEN
Total/NA	Prep	3520C			155571	05/26/12 10:07	KH	TAL PEN
Total/NA	Analysis	8082		1	155823	05/29/12 18:47	VC	TAL PEN

Client Sample ID: PB-9/TW4

Lab Sample ID: 400-65698-4

Matrix: Water

Date Collected: 05/22/12 09:35

Date Received: 05/23/12 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	155650	05/29/12 20:46	MG	TAL PEN
Total/NA	Prep	3520C			155481	05/25/12 09:07	KH	TAL PEN
Total/NA	Analysis	8270C LL		1	155715	05/31/12 11:25	CP	TAL PEN

Client Sample ID: PB-12/TW5

Lab Sample ID: 400-65698-5

Matrix: Water

Date Collected: 05/22/12 09:45

Date Received: 05/23/12 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	155650	05/29/12 21:07	MG	TAL PEN
Total/NA	Prep	3520C			155481	05/25/12 09:07	KH	TAL PEN
Total/NA	Analysis	8270C LL		1	155715	05/31/12 11:56	CP	TAL PEN

Lab Chronicle

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: PB-1/TW1

Date Collected: 05/22/12 09:55

Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	155650	05/29/12 21:27	MG	TAL PEN
Total/NA	Prep	3520C			155481	05/25/12 09:07	KH	TAL PEN
Total/NA	Analysis	8270C LL		10	155715	05/31/12 20:45	CP	TAL PEN
Total/NA	Analysis	8270C LL		1	155715	05/31/12 12:28	CP	TAL PEN

Client Sample ID: PB-4/TW10

Date Collected: 05/22/12 10:00

Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	155650	05/29/12 21:48	MG	TAL PEN
Total/NA	Prep	3520C			155481	05/25/12 09:07	KH	TAL PEN
Total/NA	Analysis	8270C LL		1	155715	05/31/12 12:59	CP	TAL PEN

Client Sample ID: PB-8/TW3

Date Collected: 05/22/12 10:10

Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	155650	05/29/12 22:08	MG	TAL PEN
Total/NA	Prep	3520C			155481	05/25/12 09:07	KH	TAL PEN
Total/NA	Analysis	8270C LL		1	155715	05/31/12 13:30	CP	TAL PEN

Client Sample ID: PB-6

Date Collected: 05/21/12 13:50

Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	155650	05/29/12 22:29	MG	TAL PEN
Total/NA	Prep	3520C			155481	05/25/12 09:07	KH	TAL PEN
Total/NA	Analysis	8270C LL		1	155715	05/31/12 14:01	CP	TAL PEN

Client Sample ID: DUP

Date Collected: 05/21/12 00:00

Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	155650	05/29/12 22:49	MG	TAL PEN

Lab Chronicle

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Client Sample ID: FIELD BLANK

Date Collected: 05/23/12 15:30

Date Received: 05/23/12 15:30

Lab Sample ID: 400-65698-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	155650	05/29/12 23:10	MG	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Surrogate Summary

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Method: 8260B - BTEX+MTBE

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (79-118)	DBFM (79-119)	TOL (80-120)
400-65698-4	PB-9/TW4	97	104	99
400-65698-4 MS	PB-9/TW4	96	106	98
400-65698-4 MSD	PB-9/TW4	97	105	99
400-65698-5	PB-12/TW5	95	107	99
400-65698-6	PB-1/TW1	95	106	101
400-65698-7	PB-4/TW10	96	105	99
400-65698-8	PB-8/TW3	93	105	100
400-65698-9	PB-6	94	105	98
400-65698-10	DUP	94	105	99
400-65698-11	FIELD BLANK	94	105	99
LCS 400-155650/4	Lab Control Sample	97	104	100
MB 400-155650/3	Method Blank	96	101	100

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (15-135)	FBP (34-113)	2FP (10-104)	NBZ (27-110)	PHL (10-110)	TPH (53-125)
400-65698-1	PB-17/TW7	60	64	44	61	42	79
400-65698-2	PB-18/TW8	82	71	47	71	51	92
400-65698-3	PB-19/TW9	59	60	38	56	38	92
LCS 400-155613/2-A	Lab Control Sample	103	75	55	67	57	86
MB 400-155613/1-A	Method Blank	80	68	57	66	61	79

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = Terphenyl-d14

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (31-121)	NBZ (39-126)	TPH (63-137)
400-65698-4	PB-9/TW4	84	93	123
400-65698-5	PB-12/TW5	74	82	106
400-65698-6	PB-1/TW1	74	85	100
400-65698-7	PB-4/TW10	74	82	94
400-65698-8	PB-8/TW3	77	83	102
400-65698-9	PB-6	71	80	96
LCS 400-155481/2-A	Lab Control Sample	91	101	104

Surrogate Summary

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (31-121)	NBZ (39-126)	TPH (63-137)
MB 400-155481/1-A	Method Blank	84	92	104
Surrogate Legend				
FBP = 2-Fluorobiphenyl				
NBZ = Nitrobenzene-d5				
TPH = Terphenyl-d14				

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCB1 (10-125)	DCB2 (10-125)	TCX1 (46-150)	TCX2 (46-150)
400-65698-1	PB-17/TW7	40		105	
400-65698-2	PB-18/TW8		31		101
400-65698-3	PB-19/TW9	54		92	
LCS 400-155571/2-A	Lab Control Sample	87		112	
MB 400-155571/1-A	Method Blank	76	79	114	115
Surrogate Legend					
DCB = DCB Decachlorobiphenyl					
TCX = Tetrachloro-m-xylene					

QC Sample Results

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Method: 8260B - BTEX+MTBE

Lab Sample ID: MB 400-155650/3

Matrix: Water

Analysis Batch: 155650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.34	U	1.0	0.34	ug/L			05/29/12 16:39	1
Toluene	0.70	U	1.0	0.70	ug/L			05/29/12 16:39	1
Ethylbenzene	0.50	U	1.0	0.50	ug/L			05/29/12 16:39	1
Xylenes, Total	1.6	U	10	1.6	ug/L			05/29/12 16:39	1
Methyl tert-butyl ether	0.74	U	1.0	0.74	ug/L			05/29/12 16:39	1

MB MB

Surrogate	%Recovery		Qualifier	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier					
4-Bromofluorobenzene	96			79 - 118		05/29/12 16:39	1
Dibromofluoromethane	101			79 - 119		05/29/12 16:39	1
Toluene-d8 (Surr)	100			80 - 120		05/29/12 16:39	1

Lab Sample ID: LCS 400-155650/4

Matrix: Water

Analysis Batch: 155650

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
	Added	Result						
Benzene	50.0	46.6	ug/L	93	75 - 122			
Toluene	50.0	46.5	ug/L	93	76 - 120			
Ethylbenzene	50.0	46.0	ug/L	92	77 - 126			
Xylenes, Total	150	150	ug/L	100	78 - 125			
Methyl tert-butyl ether	50.0	57.5	ug/L	115	69 - 123			

LCS LCS

Surrogate	%Recovery		Qualifier	Limits
	%Recovery	Qualifier		
4-Bromofluorobenzene	97			79 - 118
Dibromofluoromethane	104			79 - 119
Toluene-d8 (Surr)	100			80 - 120

Lab Sample ID: 400-65698-4 MS

Matrix: Water

Analysis Batch: 155650

Client Sample ID: PB-9/TW4

Prep Type: Total/NA

Analyte	Sample		Spike Added	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Benzene	0.34	U	50.0	39.8		ug/L	80	50 - 140	
Toluene	0.70	U	50.0	35.3		ug/L	71	48 - 131	
Ethylbenzene	0.50	U	50.0	29.4		ug/L	59	33 - 138	
Xylenes, Total	1.6	U	150	91.5		ug/L	61	31 - 139	
Methyl tert-butyl ether	0.74	U	50.0	58.0		ug/L	116	62 - 139	

MS MS

Surrogate	%Recovery		Qualifier	Limits
	%Recovery	Qualifier		
4-Bromofluorobenzene	96			79 - 118
Dibromofluoromethane	106			79 - 119
Toluene-d8 (Surr)	98			80 - 120

Lab Sample ID: 400-65698-4 MSD

Matrix: Water

Analysis Batch: 155650

Client Sample ID: PB-9/TW4

Prep Type: Total/NA

Analyte	Sample		Spike Added	MSD		Unit	D	%Rec	Limits	RPD
	Result	Qualifier		Result	Qualifier					
Benzene	0.34	U	50.0	36.1		ug/L	72	50 - 140	10	24

QC Sample Results

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Method: 8260B - BTEX+MTBE (Continued)

Lab Sample ID: 400-65698-4 MSD

Matrix: Water

Analysis Batch: 155650

Client Sample ID: PB-9/TW4
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Toluene	0.70	U	50.0	29.2		ug/L		58	48 - 131	19	34
Ethylbenzene	0.50	U	50.0	22.1		ug/L		44	33 - 138	28	49
Xylenes, Total	1.6	U	150	68.7		ug/L		46	31 - 139	28	50
Methyl tert-butyl ether	0.74	U	50.0	58.2		ug/L		116	62 - 139	0	24
<hr/>											
Surrogate	MSD		MSD		Limits						
	%Recovery	Qualifier									
4-Bromofluorobenzene	97				79 - 118						
Dibromofluoromethane	105				79 - 119						
Toluene-d8 (Sur)	99				80 - 120						

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-155613/1-A

Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 155789

Prep Type: Total/NA

Prep Batch: 155613

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	0.16	U	10	0.16	ug/L		05/29/12 09:51	05/31/12 20:48	1
Bis(2-chloroethoxy)methane	0.16	U	10	0.16	ug/L		05/29/12 09:51	05/31/12 20:48	1
Acenaphthylene	0.17	U	10	0.17	ug/L		05/29/12 09:51	05/31/12 20:48	1
Anthracene	0.18	U	10	0.18	ug/L		05/29/12 09:51	05/31/12 20:48	1
Benzidine	20	U	50	20	ug/L		05/29/12 09:51	05/31/12 20:48	1
4-Chloro-3-methylphenol	3.8	U	10	3.8	ug/L		05/29/12 09:51	05/31/12 20:48	1
4,6-Dinitro-2-methylphenol	1.6	U	10	1.6	ug/L		05/29/12 09:51	05/31/12 20:48	1
4-Nitrophenol	2.1	U	10	2.1	ug/L		05/29/12 09:51	05/31/12 20:48	1
4-Bromophenyl phenyl ether	0.20	U	10	0.20	ug/L		05/29/12 09:51	05/31/12 20:48	1
4-Chloroaniline	3.4	U	10	3.4	ug/L		05/29/12 09:51	05/31/12 20:48	1
4-Chlorophenyl phenyl ether	2.0	U	10	2.0	ug/L		05/29/12 09:51	05/31/12 20:48	1
4-Nitroaniline	1.5	U	10	1.5	ug/L		05/29/12 09:51	05/31/12 20:48	1
2-Chlorophenol	2.2	U	10	2.2	ug/L		05/29/12 09:51	05/31/12 20:48	1
2,4-Dichlorophenol	3.0	U	10	3.0	ug/L		05/29/12 09:51	05/31/12 20:48	1
2,6-Dichlorophenol	2.1	U	10	2.1	ug/L		05/29/12 09:51	05/31/12 20:48	1
2,4-Dimethylphenol	3.5	U	10	3.5	ug/L		05/29/12 09:51	05/31/12 20:48	1
2,4-Dinitrophenol	3.4	U	30	3.4	ug/L		05/29/12 09:51	05/31/12 20:48	1
2-Methylphenol	1.8	U	10	1.8	ug/L		05/29/12 09:51	05/31/12 20:48	1
2-Nitrophenol	5.2	U	10	5.2	ug/L		05/29/12 09:51	05/31/12 20:48	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		05/29/12 09:51	05/31/12 20:48	1
Phenol	2.6	U	10	2.6	ug/L		05/29/12 09:51	05/31/12 20:48	1
3 & 4 Methylphenol	0.39	U	20	0.39	ug/L		05/29/12 09:51	05/31/12 20:48	1
2,4,5-Trichlorophenol	3.7	U	10	3.7	ug/L		05/29/12 09:51	05/31/12 20:48	1
2,4,6-Trichlorophenol	3.5	U	10	3.5	ug/L		05/29/12 09:51	05/31/12 20:48	1
Benzo[a]anthracene	0.18	U	10	0.18	ug/L		05/29/12 09:51	05/31/12 20:48	1
Benzo[a]pyrene	0.12	U	10	0.12	ug/L		05/29/12 09:51	05/31/12 20:48	1
Benzo[b]fluoranthene	0.15	U	10	0.15	ug/L		05/29/12 09:51	05/31/12 20:48	1
Benzo[g,h,i]perylene	0.23	U	10	0.23	ug/L		05/29/12 09:51	05/31/12 20:48	1
Benzo[k]fluoranthene	0.16	U	10	0.16	ug/L		05/29/12 09:51	05/31/12 20:48	1
Benzyl alcohol	2.0	U	10	2.0	ug/L		05/29/12 09:51	05/31/12 20:48	1
Butyl benzyl phthalate	0.19	U	10	0.19	ug/L		05/29/12 09:51	05/31/12 20:48	1
Bis(2-chloroethyl)ether	2.7	U	10	2.7	ug/L		05/29/12 09:51	05/31/12 20:48	1

QC Sample Results

Client: CERM

TestAmerica Job ID: 400-65698-1

Project/Site: KMBRC

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-155613/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 155789

Prep Batch: 155613

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	0.16	U	0.16	U	10	0.16	ug/L	05/29/12 09:51	05/31/12 20:48		1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	U	10	2.0	ug/L	05/29/12 09:51	05/31/12 20:48		1
Chrysene	0.19	U	0.19	U	10	0.19	ug/L	05/29/12 09:51	05/31/12 20:48		1
Dibenz(a,h)anthracene	0.24	U	0.24	U	10	0.24	ug/L	05/29/12 09:51	05/31/12 20:48		1
Dibenzofuran	0.17	U	0.17	U	10	0.17	ug/L	05/29/12 09:51	05/31/12 20:48		1
Di-n-butyl phthalate	2.7	U	2.7	U	10	2.7	ug/L	05/29/12 09:51	05/31/12 20:48		1
Di-n-octyl phthalate	0.17	U	0.17	U	10	0.17	ug/L	05/29/12 09:51	05/31/12 20:48		1
Fluoranthene	0.18	U	0.18	U	10	0.18	ug/L	05/29/12 09:51	05/31/12 20:48		1
Fluorene	0.18	U	0.18	U	10	0.18	ug/L	05/29/12 09:51	05/31/12 20:48		1
Hexachlorobenzene	0.17	U	0.17	U	10	0.17	ug/L	05/29/12 09:51	05/31/12 20:48		1
Hexachlorobutadiene	3.6	U	3.6	U	10	3.6	ug/L	05/29/12 09:51	05/31/12 20:48		1
Hexachlorocyclopentadiene	2.6	U	2.6	U	20	2.6	ug/L	05/29/12 09:51	05/31/12 20:48		1
Hexachloroethane	4.2	U	4.2	U	10	4.2	ug/L	05/29/12 09:51	05/31/12 20:48		1
Indeno[1,2,3-cd]pyrene	0.22	U	0.22	U	10	0.22	ug/L	05/29/12 09:51	05/31/12 20:48		1
Isophorone	0.14	U	0.14	U	10	0.14	ug/L	05/29/12 09:51	05/31/12 20:48		1
Naphthalene	0.17	U	0.17	U	10	0.17	ug/L	05/29/12 09:51	05/31/12 20:48		1
N-Nitrosodi-n-butylamine	4.3	U	4.3	U	10	4.3	ug/L	05/29/12 09:51	05/31/12 20:48		1
N-Nitrosodimethylamine	3.5	U	3.5	U	10	3.5	ug/L	05/29/12 09:51	05/31/12 20:48		1
N-Nitrosodiphenylamine	0.18	U	0.18	U	10	0.18	ug/L	05/29/12 09:51	05/31/12 20:48		1
N-Nitrosodi-n-propylamine	3.3	U	3.3	U	10	3.3	ug/L	05/29/12 09:51	05/31/12 20:48		1
Phenanthrene	0.18	U	0.18	U	10	0.18	ug/L	05/29/12 09:51	05/31/12 20:48		1
Pyrene	0.21	U	0.21	U	10	0.21	ug/L	05/29/12 09:51	05/31/12 20:48		1
1,2-Dichlorobenzene	0.17	U	0.17	U	10	0.17	ug/L	05/29/12 09:51	05/31/12 20:48		1
1,3-Dichlorobenzene	0.18	U	0.18	U	10	0.18	ug/L	05/29/12 09:51	05/31/12 20:48		1
1,4-Dichlorobenzene	0.16	U	0.16	U	10	0.16	ug/L	05/29/12 09:51	05/31/12 20:48		1
2-Chloronaphthalene	0.14	U	0.14	U	10	0.14	ug/L	05/29/12 09:51	05/31/12 20:48		1
3,3'-Dichlorobenzidine	2.6	U	2.6	U	10	2.6	ug/L	05/29/12 09:51	05/31/12 20:48		1
Diethyl phthalate	0.24	U	0.24	U	10	0.24	ug/L	05/29/12 09:51	05/31/12 20:48		1
Dimethyl phthalate	0.17	U	0.17	U	10	0.17	ug/L	05/29/12 09:51	05/31/12 20:48		1
2,4-Dinitrotoluene	1.9	U	1.9	U	10	1.9	ug/L	05/29/12 09:51	05/31/12 20:48		1
2,6-Dinitrotoluene	1.9	U	1.9	U	10	1.9	ug/L	05/29/12 09:51	05/31/12 20:48		1
1,2-Diphenylhydrazine	2.7	U	2.7	U	10	2.7	ug/L	05/29/12 09:51	05/31/12 20:48		1
1-Methylnaphthalene	0.15	U	0.15	U	10	0.15	ug/L	05/29/12 09:51	05/31/12 20:48		1
2-Methylnaphthalene	0.13	U	0.13	U	10	0.13	ug/L	05/29/12 09:51	05/31/12 20:48		1
2-Nitroaniline	2.2	U	2.2	U	10	2.2	ug/L	05/29/12 09:51	05/31/12 20:48		1
3-Nitroaniline	1.8	U	1.8	U	10	1.8	ug/L	05/29/12 09:51	05/31/12 20:48		1
Nitrobenzene	0.13	U	0.13	U	10	0.13	ug/L	05/29/12 09:51	05/31/12 20:48		1
1,2,4-Trichlorobenzene	0.18	U	0.18	U	10	0.18	ug/L	05/29/12 09:51	05/31/12 20:48		1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	80	80	80	U	15 - 135	05/29/12 09:51	05/31/12 20:48	1
2-Fluorobiphenyl	68	68	68	U	34 - 113	05/29/12 09:51	05/31/12 20:48	1
2-Fluorophenol	57	57	57	U	10 - 104	05/29/12 09:51	05/31/12 20:48	1
Nitrobenzene-d5	66	66	66	U	27 - 110	05/29/12 09:51	05/31/12 20:48	1
Phenol-d5	61	61	61	U	10 - 110	05/29/12 09:51	05/31/12 20:48	1
Terphenyl-d14	79	79	79	U	53 - 125	05/29/12 09:51	05/31/12 20:48	1

QC Sample Results

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-155613/2-A

Matrix: Water

Analysis Batch: 155789

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	50.0	38.8		ug/L	78	55 - 113	
Bis(2-chloroethoxy)methane	50.0	33.0		ug/L	66	49 - 108	
Acenaphthylene	50.0	40.8		ug/L	82	54 - 115	
Anthracene	50.0	42.8		ug/L	86	51 - 126	
4-Chloro-3-methylphenol	50.0	36.8		ug/L	74	44 - 105	
4,6-Dinitro-2-methylphenol	50.0	43.1		ug/L	86	16 - 139	
4-Nitrophenol	50.0	29.8		ug/L	60	22 - 107	
4-Bromophenyl phenyl ether	50.0	44.1		ug/L	88	48 - 126	
4-Chloroaniline	50.0	28.7		ug/L	57	10 - 110	
4-Chlorophenyl phenyl ether	50.0	42.0		ug/L	84	54 - 117	
4-Nitroaniline	50.0	35.9		ug/L	72	36 - 112	
2-Chlorophenol	50.0	29.6		ug/L	59	42 - 102	
2,4-Dichlorophenol	50.0	34.9		ug/L	70	46 - 109	
2,4-Dimethylphenol	50.0	22.6		ug/L	45	36 - 94	
2,4-Dinitrophenol	50.0	41.7		ug/L	83	16 - 141	
2-Methylphenol	50.0	28.7		ug/L	57	44 - 100	
2-Nitrophenol	50.0	34.0		ug/L	68	41 - 110	
Pentachlorophenol	50.0	46.5		ug/L	93	14 - 147	
Phenol	50.0	24.6		ug/L	49	32 - 100	
3 & 4 Methylphenol	100	59.0		ug/L	59	38 - 110	
2,4,5-Trichlorophenol	50.0	37.7		ug/L	75	48 - 111	
2,4,6-Trichlorophenol	50.0	38.4		ug/L	77	48 - 111	
Benzo[a]anthracene	50.0	45.7		ug/L	91	59 - 114	
Benzo[a]pyrene	50.0	35.1		ug/L	70	44 - 97	
Benzo[b]fluoranthene	50.0	36.1		ug/L	72	47 - 113	
Benzo[g,h,i]perylene	50.0	43.7		ug/L	87	42 - 124	
Benzo[k]fluoranthene	50.0	40.6		ug/L	81	53 - 119	
Benzyl alcohol	50.0	31.2		ug/L	62	44 - 104	
Butyl benzyl phthalate	50.0	37.2		ug/L	74	52 - 120	
Bis(2-chloroethyl)ether	50.0	31.8		ug/L	64	47 - 107	
2,2'-oxybis[1-chloropropane]	50.0	28.9		ug/L	58	37 - 116	
Bis(2-ethylhexyl) phthalate	50.0	38.8		ug/L	78	48 - 124	
Chrysene	50.0	42.0		ug/L	84	55 - 112	
Dibenz(a,h)anthracene	50.0	41.5		ug/L	83	43 - 121	
Dibenzofuran	50.0	40.4		ug/L	81	54 - 115	
Di-n-butyl phthalate	50.0	43.0		ug/L	86	52 - 134	
Di-n-octyl phthalate	50.0	43.2		ug/L	86	46 - 114	
Fluoranthene	50.0	44.6		ug/L	89	55 - 127	
Fluorene	50.0	42.1		ug/L	84	56 - 117	
Hexachlorobenzene	50.0	46.4		ug/L	93	47 - 131	
Hexachlorobutadiene	50.0	37.6		ug/L	75	40 - 110	
Hexachlorocyclopentadiene	50.0	20.8		ug/L	42	10 - 122	
Hexachloroethane	50.0	30.4		ug/L	61	37 - 99	
Indeno[1,2,3-cd]pyrene	50.0	43.9		ug/L	88	44 - 119	
Isophorone	50.0	33.5		ug/L	67	50 - 112	
Naphthalene	50.0	34.9		ug/L	70	48 - 106	
N-Nitrosodimethylamine	50.0	27.3		ug/L	55	30 - 104	
N-Nitrosodiphenylamine	50.0	48.4		ug/L	97	58 - 120	
N-Nitrosodi-n-propylamine	50.0	35.6		ug/L	71	50 - 125	

QC Sample Results

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-155613/2-A

Matrix: Water

Analysis Batch: 155789

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155613

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Phenanthrene	50.0	43.1		ug/L	86	53 - 126	
Pyrene	50.0	37.4		ug/L	75	51 - 118	
1,2-Dichlorobenzene	50.0	32.7		ug/L	65	43 - 101	
1,3-Dichlorobenzene	50.0	31.7		ug/L	63	40 - 98	
1,4-Dichlorobenzene	50.0	32.1		ug/L	64	40 - 98	
2-Chloronaphthalene	50.0	33.3		ug/L	67	46 - 97	
3,3'-Dichlorobenzidine	50.0	28.3		ug/L	57	10 - 91	
Diethyl phthalate	50.0	42.8		ug/L	86	59 - 118	
Dimethyl phthalate	50.0	40.1		ug/L	80	55 - 115	
2,4-Dinitrotoluene	50.0	43.4		ug/L	87	59 - 113	
2,6-Dinitrotoluene	50.0	43.6		ug/L	87	60 - 113	
1-Methylnaphthalene	50.0	38.1		ug/L	76	52 - 113	
2-Methylnaphthalene	50.0	35.3		ug/L	71	49 - 110	
2-Nitroaniline	50.0	38.8		ug/L	78	50 - 114	
3-Nitroaniline	50.0	35.3		ug/L	71	37 - 115	
Nitrobenzene	50.0	32.5		ug/L	65	46 - 110	
1,2,4-Trichlorobenzene	50.0	35.2		ug/L	70	46 - 107	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	103		15 - 135
2-Fluorobiphenyl	75		34 - 113
2-Fluorophenol	55		10 - 104
Nitrobenzene-d5	67		27 - 110
Phenol-d5	57		10 - 110
Terphenyl-d14	86		53 - 125

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-155481/1-A

Matrix: Water

Analysis Batch: 155715

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155481

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 10:23	1
Acenaphthylene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 10:23	1
Anthracene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 10:23	1
Benzo[a]anthracene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 10:23	1
Benzo[a]pyrene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 10:23	1
Benzo[b]fluoranthene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 10:23	1
Benzo[g,h,i]perylene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 10:23	1
Benzo[k]fluoranthene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 10:23	1
Chrysene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 10:23	1
Dibenz(a,h)anthracene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 10:23	1
Fluoranthene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 10:23	1
Fluorene	0.021	U	0.20	0.021	ug/L		05/25/12 09:07	05/31/12 10:23	1
Indeno[1,2,3-cd]pyrene	0.040	U	0.20	0.040	ug/L		05/25/12 09:07	05/31/12 10:23	1
1-Methylnaphthalene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 10:23	1
2-Methylnaphthalene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 10:23	1
Naphthalene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 10:23	1

QC Sample Results

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 400-155481/1-A

Matrix: Water

Analysis Batch: 155715

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155481

Analyte	MB		RL	MDL	Unit	D	Prepared		Dil Fac
	Result	Qualifier					Prepared	Analyzed	
Phenanthrene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 10:23	1
Pyrene	0.020	U	0.20	0.020	ug/L		05/25/12 09:07	05/31/12 10:23	1
Surrogate									
2-Fluorobiphenyl	84		31 - 121				05/25/12 09:07	05/31/12 10:23	1
Nitrobenzene-d5	92		39 - 126				05/25/12 09:07	05/31/12 10:23	1
Terphenyl-d14	104		63 - 137				05/25/12 09:07	05/31/12 10:23	1

Lab Sample ID: LCS 400-155481/2-A

Matrix: Water

Analysis Batch: 155715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155481

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec.		Limits
	Added	Result					%Rec.	Limits	
Acenaphthene	4.00	3.61	ug/L	90	36 - 117				
Acenaphthylene	4.00	3.71	ug/L	93	37 - 122				
Anthracene	4.00	3.68	ug/L	92	33 - 127				
Benzo[a]anthracene	4.00	4.38	ug/L	110	46 - 147				
Benzo[a]pyrene	4.00	3.36	ug/L	84	40 - 130				
Benzo[b]fluoranthene	4.00	4.10	ug/L	102	38 - 144				
Benzo[g,h,i]perylene	4.00	3.30	ug/L	82	44 - 146				
Benzo[k]fluoranthene	4.00	4.13	ug/L	103	41 - 141				
Chrysene	4.00	3.74	ug/L	94	43 - 137				
Dibenz(a,h)anthracene	4.00	3.38	ug/L	84	42 - 142				
Fluoranthene	4.00	3.55	ug/L	89	42 - 143				
Fluorene	4.00	3.79	ug/L	95	34 - 141				
Indeno[1,2,3-cd]pyrene	4.00	3.36	ug/L	84	43 - 133				
1-Methylnaphthalene	4.00	3.70	ug/L	92	39 - 118				
2-Methylnaphthalene	4.00	3.45	ug/L	86	40 - 123				
Naphthalene	4.00	3.44	ug/L	86	39 - 113				
Phenanthrene	4.00	3.59	ug/L	90	38 - 126				
Pyrene	4.00	3.96	ug/L	99	44 - 138				
Surrogate									
2-Fluorobiphenyl	91		31 - 121						
Nitrobenzene-d5	101		39 - 126						
Terphenyl-d14	104		63 - 137						

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 400-155571/1-A

Matrix: Water

Analysis Batch: 155823

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155571

Analyte	MB		RL	MDL	Unit	D	Prepared		Dil Fac
	Result	Qualifier					Prepared	Analyzed	
PCB-1016	0.048	U	0.50	0.048	ug/L		05/26/12 10:07	05/29/12 17:36	1
PCB-1221	0.22	U	0.50	0.22	ug/L		05/26/12 10:07	05/29/12 17:36	1
PCB-1232	0.10	U	0.50	0.10	ug/L		05/26/12 10:07	05/29/12 17:36	1
PCB-1242	0.034	U	0.50	0.034	ug/L		05/26/12 10:07	05/29/12 17:36	1
PCB-1248	0.020	U	0.50	0.020	ug/L		05/26/12 10:07	05/29/12 17:36	1

QC Sample Results

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 400-155571/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 155823

Prep Batch: 155571

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							Prepared	Analyzed	Dil Fac
PCB-1254	0.057	U	0.50		0.057	ug/L		05/26/12 10:07	05/29/12 17:36		1
PCB-1260	0.034	U	0.50		0.034	ug/L		05/26/12 10:07	05/29/12 17:36		1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
DCB Decachlorobiphenyl	76		10 - 125			05/26/12 10:07	05/29/12 17:36	1
DCB Decachlorobiphenyl	79		10 - 125			05/26/12 10:07	05/29/12 17:36	1
Tetrachloro-m-xylene	114		46 - 150			05/26/12 10:07	05/29/12 17:36	1
Tetrachloro-m-xylene	115		46 - 150			05/26/12 10:07	05/29/12 17:36	1

Lab Sample ID: LCS 400-155571/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 155823

Prep Batch: 155571

Analyte	Spike Added	LCS	LCS	Result	Qualifier	Unit	D	%Rec.	Limits
		Result	Qualifier					%Rec.	
PCB-1016	10.0	10.6				ug/L		106	62 - 128
PCB-1260	10.0	9.54				ug/L		95	56 - 123

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits	Prepared		Dil Fac
	Result	Qualifier				Prepared	Analyzed	
DCB Decachlorobiphenyl	87		10 - 125					
Tetrachloro-m-xylene	112		46 - 150					

QC Association Summary

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

GC/MS VOA

Analysis Batch: 155650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65698-4	PB-9/TW4	Total/NA	Water	8260B	5
400-65698-4 MS	PB-9/TW4	Total/NA	Water	8260B	6
400-65698-4 MSD	PB-9/TW4	Total/NA	Water	8260B	7
400-65698-5	PB-12/TW5	Total/NA	Water	8260B	8
400-65698-6	PB-1/TW1	Total/NA	Water	8260B	9
400-65698-7	PB-4/TW10	Total/NA	Water	8260B	10
400-65698-8	PB-8/TW3	Total/NA	Water	8260B	11
400-65698-9	PB-6	Total/NA	Water	8260B	12
400-65698-10	DUP	Total/NA	Water	8260B	13
400-65698-11	FIELD BLANK	Total/NA	Water	8260B	14
LCS 400-155650/4	Lab Control Sample	Total/NA	Water	8260B	15
MB 400-155650/3	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 155481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65698-4	PB-9/TW4	Total/NA	Water	3520C	13
400-65698-5	PB-12/TW5	Total/NA	Water	3520C	14
400-65698-6	PB-1/TW1	Total/NA	Water	3520C	15
400-65698-7	PB-4/TW10	Total/NA	Water	3520C	
400-65698-8	PB-8/TW3	Total/NA	Water	3520C	
400-65698-9	PB-6	Total/NA	Water	3520C	
LCS 400-155481/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 400-155481/1-A	Method Blank	Total/NA	Water	3520C	

Prep Batch: 155613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65698-1	PB-17/TW7	Total/NA	Water	3520C	
400-65698-2	PB-18/TW8	Total/NA	Water	3520C	
400-65698-3	PB-19/TW9	Total/NA	Water	3520C	
LCS 400-155613/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 400-155613/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 155715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65698-4	PB-9/TW4	Total/NA	Water	8270C LL	155481
400-65698-5	PB-12/TW5	Total/NA	Water	8270C LL	155481
400-65698-6	PB-1/TW1	Total/NA	Water	8270C LL	155481
400-65698-6	PB-1/TW1	Total/NA	Water	8270C LL	155481
400-65698-7	PB-4/TW10	Total/NA	Water	8270C LL	155481
400-65698-8	PB-8/TW3	Total/NA	Water	8270C LL	155481
400-65698-9	PB-6	Total/NA	Water	8270C LL	155481
LCS 400-155481/2-A	Lab Control Sample	Total/NA	Water	8270C LL	155481
MB 400-155481/1-A	Method Blank	Total/NA	Water	8270C LL	155481

Analysis Batch: 155789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-155613/2-A	Lab Control Sample	Total/NA	Water	8270C	155613
MB 400-155613/1-A	Method Blank	Total/NA	Water	8270C	155613

QC Association Summary

Client: CERM
Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

GC/MS Semi VOA (Continued)

Analysis Batch: 155957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65698-1	PB-17/TW7	Total/NA	Water	8270C	155613

Analysis Batch: 155965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65698-2	PB-18/TW8	Total/NA	Water	8270C	155613
400-65698-3	PB-19/TW9	Total/NA	Water	8270C	155613

GC Semi VOA

Prep Batch: 155571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65698-1	PB-17/TW7	Total/NA	Water	3520C	10
400-65698-2	PB-18/TW8	Total/NA	Water	3520C	11
400-65698-3	PB-19/TW9	Total/NA	Water	3520C	12
LCS 400-155571/2-A	Lab Control Sample	Total/NA	Water	3520C	13
MB 400-155571/1-A	Method Blank	Total/NA	Water	3520C	14

Analysis Batch: 155823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65698-1	PB-17/TW7	Total/NA	Water	8082	155571
400-65698-2	PB-18/TW8	Total/NA	Water	8082	155571
400-65698-3	PB-19/TW9	Total/NA	Water	8082	155571
LCS 400-155571/2-A	Lab Control Sample	Total/NA	Water	8082	155571
MB 400-155571/1-A	Method Blank	Total/NA	Water	8082	155571

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

**ANALYSIS REQUEST AND
CHAIN OF CUSTODY RECORD**

JUMBER: 60595

TestAmmersea **TELECOM** **400-63898** **Chain of Custody**

Phone: 850-334-1333
Fax: 850-478-2671
Website: www.testamericainc.com

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Login Sample Receipt Checklist

Client: CERM

Job Number: 400-65698-1

Login Number: 65698

List Source: TestAmerica Pensacola

List Number: 1

Creator: Crawford, Lauren E

Question	Answer	Comment	
Radioactivity either was not measured or, if measured, is at or below background	N/A		1
The cooler's custody seal, if present, is intact.	True		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True	0.6°C, 1.4°C	6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the sample IDs on the containers and the COC.	True		11
Samples are received within Holding Time.	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
Sample collection date/times are provided.	True		15
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

Certification Summary

Client: CERM

Project/Site: KMBRC

TestAmerica Job ID: 400-65698-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Pensacola	Alabama	State Program	4	40150
TestAmerica Pensacola	Arizona	State Program	9	AZ0710
TestAmerica Pensacola	Arkansas DEQ	State Program	6	88-0689
TestAmerica Pensacola	Florida	NELAC	4	E81010
TestAmerica Pensacola	Georgia	State Program	4	N/A
TestAmerica Pensacola	Illinois	NELAC	5	200041
TestAmerica Pensacola	Iowa	State Program	7	367
TestAmerica Pensacola	Kansas	NELAC	7	E-10253
TestAmerica Pensacola	Kentucky (UST)	State Program	4	53
TestAmerica Pensacola	Louisiana	NELAC	6	30976
TestAmerica Pensacola	Maryland	State Program	3	233
TestAmerica Pensacola	Massachusetts	State Program	1	M-FL094
TestAmerica Pensacola	Michigan	State Program	5	9912
TestAmerica Pensacola	New Hampshire	NELAC	1	2505
TestAmerica Pensacola	New Jersey	NELAC	2	FL006
TestAmerica Pensacola	North Carolina DENR	State Program	4	314
TestAmerica Pensacola	Oklahoma	State Program	6	9810
TestAmerica Pensacola	Pennsylvania	NELAC	3	68-00467
TestAmerica Pensacola	Rhode Island	State Program	1	LAO00307
TestAmerica Pensacola	South Carolina	State Program	4	96026
TestAmerica Pensacola	Tennessee	State Program	4	TN02907
TestAmerica Pensacola	Texas	NELAC	6	T104704286-12-4
TestAmerica Pensacola	USDA	Federal		P330-10-00407
TestAmerica Pensacola	Virginia	NELAC	3	460166
TestAmerica Pensacola	Washington	State Program	10	C915
TestAmerica Pensacola	West Virginia DEP	State Program	3	136

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-65593-1

Client Project/Site: KMBRC - AL

For:

CERM

2296 Henderson Mill Road

Ste 200

Atlanta, Georgia 30345

Attn: Mr. John Wright

Carolyn Hooper

Authorized for release by:

5/31/2012 11:49:22 AM

Carolyn Hooper

Project Manager I

carolyn.hooper@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-65593-1	PB-12/TW5	Solid	05/18/12 08:40	05/18/12 16:10
400-65593-2	PB-9/TW4	Solid	05/18/12 09:00	05/18/12 16:10
400-65593-3	PB-10	Solid	05/18/12 09:20	05/18/12 16:10
400-65593-4	PB-2	Solid	05/18/12 09:55	05/18/12 16:10
400-65593-5	PB-1/TW1	Solid	05/18/12 10:10	05/18/12 16:10
400-65593-6	PB-3/TW2	Solid	05/18/12 10:30	05/18/12 16:10
400-65593-7	PB-5	Solid	05/18/12 10:55	05/18/12 16:10
400-65593-8	PB-4/TW10	Solid	05/18/12 11:25	05/18/12 16:10
400-65593-9	DUP	Solid	05/18/12 00:00	05/18/12 16:10
400-65593-10	PB-8/TW3	Solid	05/17/12 09:30	05/18/12 16:10
400-65593-11	PB-7	Solid	05/17/12 10:05	05/18/12 16:10
400-65593-12	PB-13	Solid	05/17/12 10:35	05/18/12 16:10
400-65593-13	PB-16	Solid	05/17/12 10:55	05/18/12 16:10
400-65593-14	PB-14	Solid	05/17/12 11:15	05/18/12 16:10
400-65593-15	PB-15	Solid	05/17/12 11:25	05/18/12 16:10
400-65593-16	PB-17/TW7	Solid	05/17/12 13:20	05/18/12 16:10
400-65593-17	PB-18/TW8	Solid	05/17/12 13:55	05/18/12 16:10
400-65593-18	PB-19/TW9	Solid	05/17/12 14:30	05/18/12 16:10
400-65593-19	PB-11	Solid	05/17/12 15:20	05/18/12 16:10
400-65593-20	TRIP BLANK	Water	05/17/12 00:00	05/18/12 16:10

Case Narrative

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Job ID: 400-65593-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-65593-1

Receipt

The samples were received on 5/18/2012 4:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.5°C and 1.3°C.

GC/MS VOA

Method(s) 8260B: The following sample was diluted due to the abundance of non-target analytes: PB-1/TW1 (400-65593-5). Elevated reporting limits (RLs) are provided.

GC/MS Semi VOA

Method(s) 8270C: The laboratory control sample (LCS) for preparation batch 155206 exceeded the upper control limits for the following analytes: 4-chloro-3-methylphenol, bis(2-chloroethoxy)ethane, butylbenzylphthalate, and di-n-octylphthalate. These analytes were biased high in the LCS and were not detected in the following associated samples; therefore, the data has been reported: PB-17/TW7 (400-65593-16), PB-18/TW8 (400-65593-17), PB-19/TW9 (400-65593-18).

GC Semi VOA

Method(s) 8082A: The following sample(s) was diluted due to the extract color: PB-18/TW8 (400-65593-17). Elevated reporting limits (RL) are provided.

Method(s) 8082A: The continuing calibration verification (CCV) for batch 155306 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Metals

Method(s) 7471A: The matrix spike (MS) recovery and MS/MSD RPD for batch 155188 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 7471A, 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 155350 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Detection Summary

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-12/TW5

Lab Sample ID: 400-65593-1

No Detections

Client Sample ID: PB-9/TW4

Lab Sample ID: 400-65593-2

No Detections

Client Sample ID: PB-10

Lab Sample ID: 400-65593-3

No Detections

Client Sample ID: PB-2

Lab Sample ID: 400-65593-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.046	J	0.40	0.040	mg/Kg	1	⊗	8270C	Total/NA

Client Sample ID: PB-1/TW1

Lab Sample ID: 400-65593-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	4.3		2.5	0.31	mg/Kg	500	⊗	8260B	Total/NA
Acenaphthene	0.062	J	0.39	0.039	mg/Kg	1	⊗	8270C	Total/NA
Fluoranthene	0.065	J	0.39	0.039	mg/Kg	1	⊗	8270C	Total/NA
Naphthalene	0.94		0.39	0.039	mg/Kg	1	⊗	8270C	Total/NA
Phenanthrene	0.10	J	0.39	0.039	mg/Kg	1	⊗	8270C	Total/NA
Pyrene	0.073	J	0.39	0.039	mg/Kg	1	⊗	8270C	Total/NA
1-Methylnaphthalene	2.7		0.39	0.039	mg/Kg	1	⊗	8270C	Total/NA
2-Methylnaphthalene	4.1		0.39	0.039	mg/Kg	1	⊗	8270C	Total/NA

Client Sample ID: PB-3/TW2

Lab Sample ID: 400-65593-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.048	J	0.40	0.040	mg/Kg	1	⊗	8270C	Total/NA
Benzo[a]pyrene	0.040	J	0.40	0.040	mg/Kg	1	⊗	8270C	Total/NA
Benzo[g,h,i]perylene	0.049	J	0.40	0.040	mg/Kg	1	⊗	8270C	Total/NA
Benzo[k]fluoranthene	0.048	J	0.40	0.040	mg/Kg	1	⊗	8270C	Total/NA
Chrysene	0.050	J	0.40	0.040	mg/Kg	1	⊗	8270C	Total/NA
Dibenz(a,h)anthracene	0.21	J	0.40	0.040	mg/Kg	1	⊗	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	0.047	J	0.40	0.040	mg/Kg	1	⊗	8270C	Total/NA

Client Sample ID: PB-5

Lab Sample ID: 400-65593-7

No Detections

Client Sample ID: PB-4/TW10

Lab Sample ID: 400-65593-8

No Detections

Client Sample ID: DUP

Lab Sample ID: 400-65593-9

No Detections

Client Sample ID: PB-8/TW3

Lab Sample ID: 400-65593-10

No Detections

Client Sample ID: PB-7

Lab Sample ID: 400-65593-11

Detection Summary

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-7 (Continued)

Lab Sample ID: 400-65593-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.097	J	0.43	0.043	mg/Kg	1	⊗	8270C	Total/NA
2-Methylnaphthalene	0.071	J	0.43	0.043	mg/Kg	1	⊗	8270C	Total/NA

Client Sample ID: PB-13

Lab Sample ID: 400-65593-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.052		0.025	0.0073	mg/Kg	1	⊗	8260B	Total/NA
Arsenic	3.3		0.59	0.47	mg/Kg	1	⊗	6010B	Total/NA
Barium	16		1.2	0.24	mg/Kg	1	⊗	6010B	Total/NA
Chromium	11		0.59	0.24	mg/Kg	1	⊗	6010B	Total/NA
Lead	6.2		0.59	0.24	mg/Kg	1	⊗	6010B	Total/NA
Mercury	0.013		0.010	0.0036	mg/Kg	1	⊗	7471A	Total/NA

Client Sample ID: PB-16

Lab Sample ID: 400-65593-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.86		0.57	0.46	mg/Kg	1	⊗	6010B	Total/NA
Barium	9.2		1.1	0.23	mg/Kg	1	⊗	6010B	Total/NA
Chromium	6.1		0.57	0.23	mg/Kg	1	⊗	6010B	Total/NA
Lead	3.5		0.57	0.23	mg/Kg	1	⊗	6010B	Total/NA

Client Sample ID: PB-14

Lab Sample ID: 400-65593-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.1		0.55	0.44	mg/Kg	1	⊗	6010B	Total/NA
Barium	14		1.1	0.22	mg/Kg	1	⊗	6010B	Total/NA
Chromium	5.7		0.55	0.22	mg/Kg	1	⊗	6010B	Total/NA
Lead	4.0		0.55	0.22	mg/Kg	1	⊗	6010B	Total/NA

Client Sample ID: PB-15

Lab Sample ID: 400-65593-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.93		0.56	0.45	mg/Kg	1	⊗	6010B	Total/NA
Barium	13		1.1	0.23	mg/Kg	1	⊗	6010B	Total/NA
Chromium	5.8		0.56	0.23	mg/Kg	1	⊗	6010B	Total/NA
Lead	4.2		0.56	0.23	mg/Kg	1	⊗	6010B	Total/NA

Client Sample ID: PB-17/TW7

Lab Sample ID: 400-65593-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.93		0.57	0.46	mg/Kg	1	⊗	6010B	Total/NA
Barium	11		1.1	0.23	mg/Kg	1	⊗	6010B	Total/NA
Chromium	6.4		0.57	0.23	mg/Kg	1	⊗	6010B	Total/NA
Lead	4.2		0.57	0.23	mg/Kg	1	⊗	6010B	Total/NA

Client Sample ID: PB-18/TW8

Lab Sample ID: 400-65593-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.7		0.58	0.47	mg/Kg	1	⊗	6010B	Total/NA
Barium	12		1.2	0.23	mg/Kg	1	⊗	6010B	Total/NA
Chromium	8.4		0.58	0.23	mg/Kg	1	⊗	6010B	Total/NA
Lead	14		0.58	0.23	mg/Kg	1	⊗	6010B	Total/NA
Mercury	0.13	B	0.0093	0.0032	mg/Kg	1	⊗	7471A	Total/NA

Detection Summary

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-19/TW9

Lab Sample ID: 400-65593-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.050	J	0.40	0.040	mg/Kg	1	⊗	8270C	Total/NA
2-Methylnaphthalene	0.061	J	0.40	0.040	mg/Kg	1	⊗	8270C	Total/NA
Arsenic	1.9		0.61	0.49	mg/Kg	1	⊗	6010B	Total/NA
Barium	15		1.2	0.24	mg/Kg	1	⊗	6010B	Total/NA
Chromium	9.0		0.61	0.24	mg/Kg	1	⊗	6010B	Total/NA
Lead	24		0.61	0.24	mg/Kg	1	⊗	6010B	Total/NA
Mercury	0.037	B	0.0098	0.0034	mg/Kg	1	⊗	7471A	Total/NA

Client Sample ID: PB-11

Lab Sample ID: 400-65593-19

No Detections

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-65593-20

No Detections

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-12/TW5

Date Collected: 05/18/12 08:40

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-1

Matrix: Solid

Percent Solids: 80.0

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00049		0.0050	0.00049	mg/Kg	⊗	05/22/12 13:00	05/25/12 21:57	1
Toluene	<0.00067		0.0050	0.00067	mg/Kg	⊗	05/22/12 13:00	05/25/12 21:57	1
Ethylbenzene	<0.00060		0.0050	0.00060	mg/Kg	⊗	05/22/12 13:00	05/25/12 21:57	1
Xylenes, Total	<0.0019		0.0099	0.0019	mg/Kg	⊗	05/22/12 13:00	05/25/12 21:57	1
Methyl tert-butyl ether	<0.00099		0.0050	0.00099	mg/Kg	⊗	05/22/12 13:00	05/25/12 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		70 - 141				05/22/12 13:00	05/25/12 21:57	1
Dibromofluoromethane	108		71 - 121				05/22/12 13:00	05/25/12 21:57	1
Toluene-d8 (Surr)	102		81 - 116				05/22/12 13:00	05/25/12 21:57	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Acenaphthylene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Anthracene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Benzo[a]anthracene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Benzo[a]pyrene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Benzo[b]fluoranthene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Benzo[g,h,i]perylene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Benzo[k]fluoranthene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Chrysene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Dibenz(a,h)anthracene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Fluoranthene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Fluorene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Indeno[1,2,3-cd]pyrene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Naphthalene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Phenanthrene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Pyrene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
1-Methylnaphthalene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
2-Methylnaphthalene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		40 - 102				05/22/12 12:09	05/25/12 00:09	1
Nitrobenzene-d5	86		34 - 102				05/22/12 12:09	05/25/12 00:09	1
Terphenyl-d14	92		49 - 117				05/22/12 12:09	05/25/12 00:09	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-9/TW4

Date Collected: 05/18/12 09:00

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-2

Matrix: Solid

Percent Solids: 83.7

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00053		0.0054	0.00053	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:18	1
Toluene	<0.00074		0.0054	0.00074	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:18	1
Ethylbenzene	<0.00066		0.0054	0.00066	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:18	1
Xylenes, Total	<0.0021		0.011	0.0021	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:18	1
Methyl tert-butyl ether	<0.0011		0.0054	0.0011	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 141				05/22/12 13:00	05/25/12 22:18	1
Dibromofluoromethane	109		71 - 121				05/22/12 13:00	05/25/12 22:18	1
Toluene-d8 (Surr)	101		81 - 116				05/22/12 13:00	05/25/12 22:18	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Acenaphthylene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Anthracene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Benzo[a]anthracene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Benzo[a]pyrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Benzo[b]fluoranthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Benzo[g,h,i]perylene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Benzo[k]fluoranthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Chrysene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Dibenz(a,h)anthracene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Fluoranthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Fluorene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Indeno[1,2,3-cd]pyrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Naphthalene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Phenanthrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Pyrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
1-Methylnaphthalene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
2-Methylnaphthalene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		40 - 102				05/22/12 12:09	05/25/12 01:55	1
Nitrobenzene-d5	88		34 - 102				05/22/12 12:09	05/25/12 01:55	1
Terphenyl-d14	97		49 - 117				05/22/12 12:09	05/25/12 01:55	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-10

Date Collected: 05/18/12 09:20

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-3

Matrix: Solid

Percent Solids: 78.4

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00056		0.0057	0.00056	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:39	1
Toluene	<0.00077		0.0057	0.00077	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:39	1
Ethylbenzene	<0.00069		0.0057	0.00069	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:39	1
Xylenes, Total	<0.0022		0.011	0.0022	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:39	1
Methyl tert-butyl ether	<0.0011		0.0057	0.0011	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 141				05/22/12 13:00	05/25/12 22:39	1
Dibromofluoromethane	110		71 - 121				05/22/12 13:00	05/25/12 22:39	1
Toluene-d8 (Surr)	101		81 - 116				05/22/12 13:00	05/25/12 22:39	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Acenaphthylene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Anthracene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Benzo[a]anthracene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Benzo[a]pyrene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Benzo[b]fluoranthene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Benzo[g,h,i]perylene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Benzo[k]fluoranthene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Chrysene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Dibenz(a,h)anthracene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Fluoranthene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Fluorene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Indeno[1,2,3-cd]pyrene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Naphthalene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Phenanthrene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Pyrene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
1-Methylnaphthalene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
2-Methylnaphthalene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		40 - 102				05/22/12 12:09	05/25/12 00:44	1
Nitrobenzene-d5	78		34 - 102				05/22/12 12:09	05/25/12 00:44	1
Terphenyl-d14	83		49 - 117				05/22/12 12:09	05/25/12 00:44	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-2

Date Collected: 05/18/12 09:55

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-4

Matrix: Solid

Percent Solids: 83.0

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00047		0.0048	0.00047	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:59	1
Toluene	<0.00065		0.0048	0.00065	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:59	1
Ethylbenzene	<0.00058		0.0048	0.00058	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:59	1
Xylenes, Total	<0.0018		0.0096	0.0018	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:59	1
Methyl tert-butyl ether	<0.00096		0.0048	0.00096	mg/Kg	⊗	05/22/12 13:00	05/25/12 22:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 141				05/22/12 13:00	05/25/12 22:59	1
Dibromofluoromethane	107		71 - 121				05/22/12 13:00	05/25/12 22:59	1
Toluene-d8 (Surr)	101		81 - 116				05/22/12 13:00	05/25/12 22:59	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Acenaphthylene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Anthracene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Benzo[a]anthracene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Benzo[a]pyrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Benzo[b]fluoranthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Benzo[g,h,i]perylene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Benzo[k]fluoranthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Chrysene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Dibenz(a,h)anthracene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Fluoranthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Fluorene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Indeno[1,2,3-cd]pyrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Naphthalene	0.046 J		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Phenanthrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Pyrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
1-Methylnaphthalene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
2-Methylnaphthalene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		40 - 102				05/22/12 12:09	05/25/12 01:19	1
Nitrobenzene-d5	80		34 - 102				05/22/12 12:09	05/25/12 01:19	1
Terphenyl-d14	88		49 - 117				05/22/12 12:09	05/25/12 01:19	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-1/TW1

Date Collected: 05/18/12 10:10

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-5

Matrix: Solid

Percent Solids: 84.6

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.25		2.5	0.25	mg/Kg	⊗	05/22/12 13:00	05/25/12 23:20	500
Toluene	<0.34		2.5	0.34	mg/Kg	⊗	05/22/12 13:00	05/25/12 23:20	500
Ethylbenzene	4.3		2.5	0.31	mg/Kg	⊗	05/22/12 13:00	05/25/12 23:20	500
Xylenes, Total	<0.96		5.1	0.96	mg/Kg	⊗	05/22/12 13:00	05/25/12 23:20	500
Methyl tert-butyl ether	<0.51		2.5	0.51	mg/Kg	⊗	05/22/12 13:00	05/25/12 23:20	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 141				05/22/12 13:00	05/25/12 23:20	500
Dibromofluoromethane	103		71 - 121				05/22/12 13:00	05/25/12 23:20	500
Toluene-d8 (Surr)	104		81 - 116				05/22/12 13:00	05/25/12 23:20	500

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.062 J		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Acenaphthylene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Anthracene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Benzo[a]anthracene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Benzo[a]pyrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Benzo[b]fluoranthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Benzo[g,h,i]perylene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Benzo[k]fluoranthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Chrysene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Dibenz(a,h)anthracene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Fluoranthene	0.065 J		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Fluorene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Indeno[1,2,3-cd]pyrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Naphthalene	0.94		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Phenanthrene	0.10 J		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Pyrene	0.073 J		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
1-Methylnaphthalene	2.7		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
2-Methylnaphthalene	4.1		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 13:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		40 - 102				05/22/12 12:09	05/25/12 13:42	1
Nitrobenzene-d5	64		34 - 102				05/22/12 12:09	05/25/12 13:42	1
Terphenyl-d14	80		49 - 117				05/22/12 12:09	05/25/12 13:42	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-3/TW2

Date Collected: 05/18/12 10:30

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-6

Matrix: Solid

Percent Solids: 81.2

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00058		0.0060	0.00058	mg/Kg	⊗	05/22/12 13:00	05/25/12 23:40	1
Toluene	<0.00081		0.0060	0.00081	mg/Kg	⊗	05/22/12 13:00	05/25/12 23:40	1
Ethylbenzene	<0.00073		0.0060	0.00073	mg/Kg	⊗	05/22/12 13:00	05/25/12 23:40	1
Xylenes, Total	<0.0023		0.012	0.0023	mg/Kg	⊗	05/22/12 13:00	05/25/12 23:40	1
Methyl tert-butyl ether	<0.0012		0.0060	0.0012	mg/Kg	⊗	05/22/12 13:00	05/25/12 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 141				05/22/12 13:00	05/25/12 23:40	1
Dibromofluoromethane	110		71 - 121				05/22/12 13:00	05/25/12 23:40	1
Toluene-d8 (Surr)	101		81 - 116				05/22/12 13:00	05/25/12 23:40	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Acenaphthylene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Anthracene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Benzo[a]anthracene	0.048 J		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Benzo[a]pyrene	0.040 J		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Benzo[b]fluoranthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Benzo[g,h,i]perylene	0.049 J		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Benzo[k]fluoranthene	0.048 J		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Chrysene	0.050 J		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Dibenz(a,h)anthracene	0.21 J		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Fluoranthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Fluorene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Indeno[1,2,3-cd]pyrene	0.047 J		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Naphthalene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Phenanthrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Pyrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
1-Methylnaphthalene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
2-Methylnaphthalene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		40 - 102				05/22/12 12:09	05/25/12 14:54	1
Nitrobenzene-d5	81		34 - 102				05/22/12 12:09	05/25/12 14:54	1
Terphenyl-d14	86		49 - 117				05/22/12 12:09	05/25/12 14:54	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-5

Date Collected: 05/18/12 10:55

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-7

Matrix: Solid

Percent Solids: 76.5

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00054		0.0055	0.00054	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:00	1
Toluene	<0.00075		0.0055	0.00075	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:00	1
Ethylbenzene	<0.00068		0.0055	0.00068	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:00	1
Xylenes, Total	<0.0021		0.011	0.0021	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:00	1
Methyl tert-butyl ether	<0.0011		0.0055	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 141				05/22/12 13:00	05/26/12 00:00	1
Dibromofluoromethane	110		71 - 121				05/22/12 13:00	05/26/12 00:00	1
Toluene-d8 (Surr)	101		81 - 116				05/22/12 13:00	05/26/12 00:00	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Acenaphthylene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Anthracene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Benzo[a]anthracene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Benzo[a]pyrene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Benzo[b]fluoranthene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Benzo[g,h,i]perylene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Benzo[k]fluoranthene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Chrysene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Dibenz(a,h)anthracene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Fluoranthene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Fluorene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Indeno[1,2,3-cd]pyrene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Naphthalene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Phenanthrene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Pyrene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
1-Methylnaphthalene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
2-Methylnaphthalene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 15:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		40 - 102				05/22/12 12:09	05/25/12 15:29	1
Nitrobenzene-d5	93		34 - 102				05/22/12 12:09	05/25/12 15:29	1
Terphenyl-d14	100		49 - 117				05/22/12 12:09	05/25/12 15:29	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-4/TW10

Date Collected: 05/18/12 11:25

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-8

Matrix: Solid

Percent Solids: 81.8

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00051		0.0052	0.00051	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:21	1
Toluene	<0.00071		0.0052	0.00071	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:21	1
Ethylbenzene	<0.00063		0.0052	0.00063	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:21	1
Xylenes, Total	<0.0020		0.010	0.0020	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:21	1
Methyl tert-butyl ether	<0.0010		0.0052	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 141				05/22/12 13:00	05/26/12 00:21	1
Dibromofluoromethane	110		71 - 121				05/22/12 13:00	05/26/12 00:21	1
Toluene-d8 (Surr)	101		81 - 116				05/22/12 13:00	05/26/12 00:21	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Acenaphthylene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Anthracene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Benzo[a]anthracene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Benzo[a]pyrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Benzo[b]fluoranthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Benzo[g,h,i]perylene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Benzo[k]fluoranthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Chrysene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Dibenz(a,h)anthracene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Fluoranthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Fluorene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Indeno[1,2,3-cd]pyrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Naphthalene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Phenanthrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Pyrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
1-Methylnaphthalene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
2-Methylnaphthalene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		40 - 102				05/22/12 12:09	05/25/12 16:05	1
Nitrobenzene-d5	67		34 - 102				05/22/12 12:09	05/25/12 16:05	1
Terphenyl-d14	70		49 - 117				05/22/12 12:09	05/25/12 16:05	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: DUP**Date Collected: 05/18/12 00:00****Date Received: 05/18/12 16:10****Lab Sample ID: 400-65593-9**

Matrix: Solid

Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0080		0.027	0.0080	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Benzene	<0.00054		0.0055	0.00054	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Bromobenzene	<0.0014		0.0055	0.0014	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Bromochloromethane	<0.00083		0.0055	0.00083	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Bromodichloromethane	<0.00092		0.0055	0.00092	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Bromoform	<0.00057		0.0055	0.00057	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Bromomethane	<0.0015		0.0055	0.0015	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Methyl Ethyl Ketone	<0.0045		0.027	0.0045	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Carbon disulfide	<0.0013		0.0055	0.0013	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Carbon tetrachloride	<0.0019		0.0055	0.0019	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Chlorobenzene	<0.00057		0.0055	0.00057	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Chloroethane	<0.0021		0.0055	0.0021	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Chloroform	<0.00064		0.0055	0.00064	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Chloromethane	<0.0011		0.0055	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
2-Chlorotoluene	<0.0011		0.0055	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
4-Chlorotoluene	<0.0011		0.0055	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Cymene, p-	<0.00085		0.0055	0.00085	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Dibromochloromethane	<0.00095		0.0055	0.00095	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,2-Dibromo-3-Chloropropane	<0.0036		0.0055	0.0036	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Dibromomethane	<0.00091		0.0055	0.00091	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,2-Dichlorobenzene	<0.00078		0.0055	0.00078	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,3-Dichlorobenzene	<0.0010		0.0055	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,4-Dichlorobenzene	<0.00090		0.0055	0.00090	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Dichlorodifluoromethane	<0.0014		0.0055	0.0014	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,1-Dichloroethane	<0.00091		0.0055	0.00091	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,2-Dichloroethane	<0.00090		0.0055	0.00090	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,1-Dichloroethene	<0.00082		0.0055	0.00082	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,2-Dichloroethene, cis-	<0.00083		0.0055	0.00083	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,2-Dichloroethene, trans-	<0.00074		0.0055	0.00074	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,2-Dichloropropane	<0.00081		0.0055	0.00081	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,3-Dichloropropane	<0.00071		0.0055	0.00071	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
2,2-Dichloropropane	<0.0020		0.0055	0.0020	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,1-Dichloropropene	<0.00080		0.0055	0.00080	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,3-Dichloropropene, cis-	<0.0013		0.0055	0.0013	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,3-Dichloropropene, trans-	<0.0010		0.0055	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Ethylbenzene	<0.00067		0.0055	0.00067	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Ethylene Dibromide	<0.00052		0.0055	0.00052	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Hexachlorobutadiene	<0.0012		0.0055	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
2-Hexanone	<0.0055		0.027	0.0055	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Iodomethane	<0.0037		0.0055	0.0037	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Cumene	<0.00074		0.0055	0.00074	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Isopropyl ether	<0.00060		0.0055	0.00060	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Methylene Chloride	<0.0037		0.0055	0.0037	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
methyl isobutyl ketone	<0.0044		0.027	0.0044	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Methyl tert-butyl ether	<0.0011		0.0055	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Naphthalene	<0.0011		0.0055	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
n-Butylbenzene	<0.0010		0.0055	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
n-Propylbenzene	<0.00098		0.0055	0.00098	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
sec-Butylbenzene	<0.0010		0.0055	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Styrene	<0.00083		0.0055	0.00083	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
t-Butylbenzene	<0.00086		0.0055	0.00086	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: DUP**Lab Sample ID: 400-65593-9**

Date Collected: 05/18/12 00:00

Matrix: Solid

Date Received: 05/18/12 16:10

Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.0011		0.0055	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,1,2,2-Tetrachloroethane	<0.00079		0.0055	0.00079	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Tetrachloroethene	<0.00092		0.0055	0.00092	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Toluene	<0.00074		0.0055	0.00074	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,2,3-Trichlorobenzene	<0.0013		0.0055	0.0013	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,2,4-Trichlorobenzene	<0.00080		0.0055	0.00080	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,1,1-Trichloroethane	<0.0012		0.0055	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,1,2-Trichloroethane	<0.0010		0.0055	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Trichloroethene	<0.00052		0.0055	0.00052	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Trichlorofluoromethane	<0.0010		0.0055	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,2,3-Trichloropropane	<0.0019		0.0055	0.0019	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,2,4-Trimethylbenzene	<0.00080		0.0055	0.00080	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
1,3,5-Trimethylbenzene	<0.00091		0.0055	0.00091	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Vinyl acetate	<0.0099		0.027	0.0099	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Vinyl chloride	<0.0010		0.0055	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1
Xylenes, Total	<0.0021		0.011	0.0021	mg/Kg	⊗	05/22/12 13:00	05/26/12 00:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		70 - 141	05/22/12 13:00	05/26/12 00:41	1
Dibromofluoromethane	112		71 - 121	05/22/12 13:00	05/26/12 00:41	1
Toluene-d8 (Surr)	100		81 - 116	05/22/12 13:00	05/26/12 00:41	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-8/TW3

Date Collected: 05/17/12 09:30

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-10

Matrix: Solid

Percent Solids: 79.3

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00053		0.0055	0.00053	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:02	1
Toluene	<0.00074		0.0055	0.00074	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:02	1
Ethylbenzene	<0.00067		0.0055	0.00067	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:02	1
Xylenes, Total	<0.0021		0.011	0.0021	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:02	1
Methyl tert-butyl ether	<0.0011		0.0055	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 141				05/22/12 13:00	05/26/12 01:02	1
Dibromofluoromethane	109		71 - 121				05/22/12 13:00	05/26/12 01:02	1
Toluene-d8 (Surr)	100		81 - 116				05/22/12 13:00	05/26/12 01:02	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Acenaphthylene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Anthracene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Benzo[a]anthracene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Benzo[a]pyrene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Benzo[b]fluoranthene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Benzo[g,h,i]perylene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Benzo[k]fluoranthene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Chrysene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Dibenz(a,h)anthracene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Fluoranthene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Fluorene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Indeno[1,2,3-cd]pyrene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Naphthalene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Phenanthrene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Pyrene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
1-Methylnaphthalene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
2-Methylnaphthalene	<0.041		0.41	0.041	mg/Kg	⊗	05/22/12 12:09	05/24/12 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		40 - 102				05/22/12 12:09	05/24/12 23:33	1
Nitrobenzene-d5	78		34 - 102				05/22/12 12:09	05/24/12 23:33	1
Terphenyl-d14	91		49 - 117				05/22/12 12:09	05/24/12 23:33	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-7

Date Collected: 05/17/12 10:05

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-11

Matrix: Solid

Percent Solids: 76.3

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00063		0.0065	0.00063	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:22	1
Toluene	<0.00088		0.0065	0.00088	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:22	1
Ethylbenzene	<0.00079		0.0065	0.00079	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:22	1
Xylenes, Total	<0.0025		0.013	0.0025	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:22	1
Methyl tert-butyl ether	<0.0013		0.0065	0.0013	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 141				05/22/12 13:00	05/26/12 01:22	1
Dibromofluoromethane	111		71 - 121				05/22/12 13:00	05/26/12 01:22	1
Toluene-d8 (Surr)	100		81 - 116				05/22/12 13:00	05/26/12 01:22	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Acenaphthylene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Anthracene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Benzo[a]anthracene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Benzo[a]pyrene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Benzo[b]fluoranthene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Benzo[g,h,i]perylene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Benzo[k]fluoranthene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Chrysene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Dibenz(a,h)anthracene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Fluoranthene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Fluorene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Indeno[1,2,3-cd]pyrene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Naphthalene	0.097 J		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Phenanthrene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Pyrene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
1-Methylnaphthalene	<0.043		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
2-Methylnaphthalene	0.071 J		0.43	0.043	mg/Kg	⊗	05/22/12 12:09	05/25/12 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		40 - 102				05/22/12 12:09	05/25/12 16:41	1
Nitrobenzene-d5	79		34 - 102				05/22/12 12:09	05/25/12 16:41	1
Terphenyl-d14	92		49 - 117				05/22/12 12:09	05/25/12 16:41	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-13

Date Collected: 05/17/12 10:35

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-12

Matrix: Solid

Percent Solids: 78.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.052		0.025	0.0073	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Benzene	<0.00049		0.0050	0.00049	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Bromobenzene	<0.0013		0.0050	0.0013	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Bromoform	<0.00076		0.0050	0.00076	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Bromochloromethane	<0.00084		0.0050	0.00084	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Bromodichloromethane	<0.00052		0.0050	0.00052	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Bromoform	<0.0014		0.0050	0.0014	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Chlorobenzene	<0.0041		0.025	0.0041	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Chloroethane	<0.0012		0.0050	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Chloroform	<0.0017		0.0050	0.0017	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Chloromethane	<0.00052		0.0050	0.00052	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Chloroethane	<0.0019		0.0050	0.0019	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Chloroform	<0.00059		0.0050	0.00059	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Chloromethane	<0.00099		0.0050	0.00099	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
2-Chlorotoluene	<0.00097		0.0050	0.00097	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
4-Chlorotoluene	<0.00097		0.0050	0.00097	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Cymene, p-	<0.00078		0.0050	0.00078	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Dibromochloromethane	<0.00087		0.0050	0.00087	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,2-Dibromo-3-Chloropropane	<0.0033		0.0050	0.0033	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Dibromomethane	<0.00083		0.0050	0.00083	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,2-Dichlorobenzene	<0.00071		0.0050	0.00071	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,3-Dichlorobenzene	<0.00095		0.0050	0.00095	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,4-Dichlorobenzene	<0.00082		0.0050	0.00082	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Dichlorodifluoromethane	<0.0013		0.0050	0.0013	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,1-Dichloroethane	<0.00083		0.0050	0.00083	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,2-Dichloroethane	<0.00082		0.0050	0.00082	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,1-Dichloroethene	<0.00075		0.0050	0.00075	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,2-Dichloroethene, cis-	<0.00076		0.0050	0.00076	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,2-Dichloroethene, trans-	<0.00068		0.0050	0.00068	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,2-Dichloropropane	<0.00074		0.0050	0.00074	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,3-Dichloropropane	<0.00065		0.0050	0.00065	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
2,2-Dichloropropane	<0.0018		0.0050	0.0018	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,1-Dichloropropene	<0.00073		0.0050	0.00073	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,3-Dichloropropene, cis-	<0.0012		0.0050	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,3-Dichloropropene, trans-	<0.00092		0.0050	0.00092	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Ethylbenzene	<0.00061		0.0050	0.00061	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Ethylene Dibromide	<0.00048		0.0050	0.00048	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Hexachlorobutadiene	<0.0011		0.0050	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
2-Hexanone	<0.0050		0.025	0.0050	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Iodomethane	<0.0034		0.0050	0.0034	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Cumene	<0.00068		0.0050	0.00068	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Isopropyl ether	<0.00055		0.0050	0.00055	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Methylene Chloride	<0.0034		0.0050	0.0034	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
methyl isobutyl ketone	<0.0040		0.025	0.0040	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Methyl tert-butyl ether	<0.00099		0.0050	0.00099	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Naphthalene	<0.00099		0.0050	0.00099	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
n-Butylbenzene	<0.00095		0.0050	0.00095	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
n-Propylbenzene	<0.00090		0.0050	0.00090	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
sec-Butylbenzene	<0.00095		0.0050	0.00095	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Styrene	<0.00076		0.0050	0.00076	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
t-Butylbenzene	<0.00079		0.0050	0.00079	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-13**Lab Sample ID: 400-65593-12**

Date Collected: 05/17/12 10:35

Matrix: Solid

Date Received: 05/18/12 16:10

Percent Solids: 78.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.00099		0.0050	0.00099	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,1,2,2-Tetrachloroethane	<0.00072		0.0050	0.00072	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Tetrachloroethene	<0.00084		0.0050	0.00084	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Toluene	<0.00068		0.0050	0.00068	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,2,3-Trichlorobenzene	<0.0012		0.0050	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,2,4-Trichlorobenzene	<0.00073		0.0050	0.00073	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,1,1-Trichloroethane	<0.0011		0.0050	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,1,2-Trichloroethane	<0.00092		0.0050	0.00092	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Trichloroethene	<0.00048		0.0050	0.00048	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Trichlorofluoromethane	<0.00095		0.0050	0.00095	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,2,3-Trichloropropane	<0.0017		0.0050	0.0017	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,2,4-Trimethylbenzene	<0.00073		0.0050	0.00073	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
1,3,5-Trimethylbenzene	<0.00083		0.0050	0.00083	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Vinyl acetate	<0.0091		0.025	0.0091	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Vinyl chloride	<0.00092		0.0050	0.00092	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Xylenes, Total	<0.0019		0.0099	0.0019	mg/Kg	⊗	05/22/12 13:00	05/26/12 01:43	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95			70 - 141			05/22/12 13:00	05/26/12 01:43	1
Dibromofluoromethane	111			71 - 121			05/22/12 13:00	05/26/12 01:43	1
Toluene-d8 (Surr)	102			81 - 116			05/22/12 13:00	05/26/12 01:43	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Acenaphthylene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Anthracene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Benzo[a]anthracene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Benzo[a]pyrene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Benzo[b]fluoranthene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Benzo[g,h,i]perylene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Benzo[k]fluoranthene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Chrysene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Dibenz(a,h)anthracene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Fluoranthene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Fluorene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Indeno[1,2,3-cd]pyrene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Naphthalene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Phenanthrene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Pyrene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
1-Methylnaphthalene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
2-Methylnaphthalene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:16	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81			40 - 102			05/22/12 12:09	05/25/12 17:16	1
Nitrobenzene-d5	89			34 - 102			05/22/12 12:09	05/25/12 17:16	1
Terphenyl-d14	89			49 - 117			05/22/12 12:09	05/25/12 17:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.24		0.59	0.24	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:32	1
Arsenic	3.3		0.59	0.47	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:32	1

Client Sample Results

Client: CERM

TestAmerica Job ID: 400-65593-1

Project/Site: KMBRC - AL

Client Sample ID: PB-13**Lab Sample ID: 400-65593-12**

Date Collected: 05/17/12 10:35

Matrix: Solid

Date Received: 05/18/12 16:10

Percent Solids: 78.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	16		1.2	0.24	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:32	1
Cadmium	<0.12		0.59	0.12	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:32	1
Chromium	11		0.59	0.24	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:32	1
Lead	6.2		0.59	0.24	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:32	1
Selenium	<0.47		1.2	0.47	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:32	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013		0.010	0.0036	mg/Kg	⊗	05/24/12 07:45	05/24/12 12:37	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-16

Date Collected: 05/17/12 10:55

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-13

Matrix: Solid

Percent Solids: 79.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0076		0.026	0.0076	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Benzene	<0.00051		0.0052	0.00051	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Bromobenzene	<0.0014		0.0052	0.0014	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Bromoform	<0.00079		0.0052	0.00079	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Bromochloromethane	<0.00087		0.0052	0.00087	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Bromodichloromethane	<0.00054		0.0052	0.00054	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Bromoform	<0.0015		0.0052	0.0015	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Chlorobenzene	<0.0043		0.026	0.0043	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Carbon disulfide	<0.0012		0.0052	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Carbon tetrachloride	<0.0018		0.0052	0.0018	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Chloroethane	<0.00054		0.0052	0.00054	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Chloroform	<0.0020		0.0052	0.0020	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Chloromethane	<0.00061		0.0052	0.00061	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Chlorotoluene	<0.0010		0.0052	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Cymene, p-	<0.00010		0.0052	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Dibromochloromethane	<0.00090		0.0052	0.00090	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,2-Dibromo-3-Chloropropane	<0.0034		0.0052	0.0034	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Dibromomethane	<0.00086		0.0052	0.00086	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,2-Dichlorobenzene	<0.00074		0.0052	0.00074	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,3-Dichlorobenzene	<0.00099		0.0052	0.00099	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,4-Dichlorobenzene	<0.00085		0.0052	0.00085	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Dichlorodifluoromethane	<0.0014		0.0052	0.0014	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,1-Dichloroethane	<0.00086		0.0052	0.00086	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,2-Dichloroethane	<0.00085		0.0052	0.00085	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,1-Dichloroethene	<0.00078		0.0052	0.00078	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,2-Dichloroethene, cis-	<0.00079		0.0052	0.00079	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,2-Dichloroethene, trans-	<0.00071		0.0052	0.00071	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,2-Dichloropropane	<0.00077		0.0052	0.00077	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,3-Dichloropropane	<0.00068		0.0052	0.00068	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
2,2-Dichloropropane	<0.0019		0.0052	0.0019	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,1-Dichloropropene	<0.00076		0.0052	0.00076	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,3-Dichloropropene, cis-	<0.0012		0.0052	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,3-Dichloropropene, trans-	<0.00096		0.0052	0.00096	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Ethylbenzene	<0.00063		0.0052	0.00063	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Ethylene Dibromide	<0.00050		0.0052	0.00050	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Hexachlorobutadiene	<0.0011		0.0052	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
2-Hexanone	<0.0052		0.026	0.0052	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Iodomethane	<0.0035		0.0052	0.0035	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Cumene	<0.00071		0.0052	0.00071	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Isopropyl ether	<0.00057		0.0052	0.00057	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Methylene Chloride	<0.0035		0.0052	0.0035	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
methyl isobutyl ketone	<0.0042		0.026	0.0042	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Methyl tert-butyl ether	<0.0010		0.0052	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Naphthalene	<0.0010		0.0052	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
n-Butylbenzene	<0.0010		0.0052	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
n-Propylbenzene	<0.00093		0.0052	0.00093	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
sec-Butylbenzene	<0.00099		0.0052	0.00099	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Styrene	<0.00079		0.0052	0.00079	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
t-Butylbenzene	<0.00082		0.0052	0.00082	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-16

Date Collected: 05/17/12 10:55

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-13

Matrix: Solid

Percent Solids: 79.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.0010		0.0052	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,1,2,2-Tetrachloroethane	<0.00075		0.0052	0.00075	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Tetrachloroethene	<0.00087		0.0052	0.00087	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Toluene	<0.00071		0.0052	0.00071	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,2,3-Trichlorobenzene	<0.0012		0.0052	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,2,4-Trichlorobenzene	<0.00076		0.0052	0.00076	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,1,1-Trichloroethane	<0.0011		0.0052	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,1,2-Trichloroethane	<0.00096		0.0052	0.00096	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Trichloroethene	<0.00050		0.0052	0.00050	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Trichlorofluoromethane	<0.00099		0.0052	0.00099	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,2,3-Trichloropropane	<0.0018		0.0052	0.0018	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,2,4-Trimethylbenzene	<0.00076		0.0052	0.00076	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
1,3,5-Trimethylbenzene	<0.00086		0.0052	0.00086	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Vinyl acetate	<0.0095		0.026	0.0095	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Vinyl chloride	<0.00096		0.0052	0.00096	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Xylenes, Total	<0.0020		0.010	0.0020	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:03	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93			70 - 141			05/22/12 13:00	05/26/12 02:03	1
Dibromofluoromethane	111			71 - 121			05/22/12 13:00	05/26/12 02:03	1
Toluene-d8 (Surr)	101			81 - 116			05/22/12 13:00	05/26/12 02:03	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Acenaphthylene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Anthracene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Benzo[a]anthracene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Benzo[a]pyrene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Benzo[b]fluoranthene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Benzo[g,h,i]perylene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Benzo[k]fluoranthene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Chrysene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Dibenz(a,h)anthracene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Fluoranthene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Fluorene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Indeno[1,2,3-cd]pyrene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Naphthalene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Phenanthrene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Pyrene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
1-Methylnaphthalene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
2-Methylnaphthalene	<0.042		0.42	0.042	mg/Kg	⊗	05/22/12 12:09	05/25/12 17:52	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78			40 - 102			05/22/12 12:09	05/25/12 17:52	1
Nitrobenzene-d5	85			34 - 102			05/22/12 12:09	05/25/12 17:52	1
Terphenyl-d14	96			49 - 117			05/22/12 12:09	05/25/12 17:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.23		0.57	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:47	1
Arsenic	0.86		0.57	0.46	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:47	1

Client Sample Results

Client: CERM

TestAmerica Job ID: 400-65593-1

Project/Site: KMBRC - AL

Client Sample ID: PB-16**Lab Sample ID: 400-65593-13**

Date Collected: 05/17/12 10:55

Matrix: Solid

Date Received: 05/18/12 16:10

Percent Solids: 79.4

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	9.2		1.1	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:47	1
Cadmium	<0.11		0.57	0.11	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:47	1
Chromium	6.1		0.57	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:47	1
Lead	3.5		0.57	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:47	1
Selenium	<0.46		1.1	0.46	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:47	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0036		0.010	0.0036	mg/Kg	⊗	05/24/12 07:45	05/24/12 12:48	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-14

Date Collected: 05/17/12 11:15

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-14

Matrix: Solid

Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0071		0.024	0.0071	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Benzene	<0.00048		0.0049	0.00048	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Bromobenzene	<0.0013		0.0049	0.0013	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Bromoform	<0.00074		0.0049	0.00074	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Bromochloromethane	<0.00082		0.0049	0.00082	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Bromodichloromethane	<0.00051		0.0049	0.00051	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Bromoform	<0.0014		0.0049	0.0014	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Methyl Ethyl Ketone	<0.0040		0.024	0.0040	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Carbon disulfide	<0.0012		0.0049	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Carbon tetrachloride	<0.0017		0.0049	0.0017	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Chlorobenzene	<0.00051		0.0049	0.00051	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Chloroethane	<0.0019		0.0049	0.0019	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Chloroform	<0.00058		0.0049	0.00058	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Chloromethane	<0.00098		0.0049	0.00098	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
2-Chlorotoluene	<0.00096		0.0049	0.00096	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
4-Chlorotoluene	<0.00096		0.0049	0.00096	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Cymene, p-	<0.00076		0.0049	0.00076	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Dibromochloromethane	<0.00085		0.0049	0.00085	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,2-Dibromo-3-Chloropropane	<0.0032		0.0049	0.0032	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Dibromomethane	<0.00081		0.0049	0.00081	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,2-Dichlorobenzene	<0.00069		0.0049	0.00069	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,3-Dichlorobenzene	<0.00093		0.0049	0.00093	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,4-Dichlorobenzene	<0.00080		0.0049	0.00080	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Dichlorodifluoromethane	<0.0013		0.0049	0.0013	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,1-Dichloroethane	<0.00081		0.0049	0.00081	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,2-Dichloroethane	<0.00080		0.0049	0.00080	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,1-Dichloroethene	<0.00073		0.0049	0.00073	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,2-Dichloroethene, cis-	<0.00074		0.0049	0.00074	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,2-Dichloroethene, trans-	<0.00066		0.0049	0.00066	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,2-Dichloropropane	<0.00072		0.0049	0.00072	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,3-Dichloropropane	<0.00063		0.0049	0.00063	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
2,2-Dichloropropane	<0.0018		0.0049	0.0018	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,1-Dichloropropene	<0.00071		0.0049	0.00071	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,3-Dichloropropene, cis-	<0.0012		0.0049	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,3-Dichloropropene, trans-	<0.00090		0.0049	0.00090	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Ethylbenzene	<0.00060		0.0049	0.00060	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Ethylene Dibromide	<0.00047		0.0049	0.00047	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Hexachlorobutadiene	<0.0011		0.0049	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
2-Hexanone	<0.0049		0.024	0.0049	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Iodomethane	<0.0033		0.0049	0.0033	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Cumene	<0.00066		0.0049	0.00066	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Isopropyl ether	<0.00054		0.0049	0.00054	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Methylene Chloride	<0.0033		0.0049	0.0033	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
methyl isobutyl ketone	<0.0039		0.024	0.0039	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Methyl tert-butyl ether	<0.00098		0.0049	0.00098	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Naphthalene	<0.00098		0.0049	0.00098	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
n-Butylbenzene	<0.00094		0.0049	0.00094	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
n-Propylbenzene	<0.00088		0.0049	0.00088	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
sec-Butylbenzene	<0.00093		0.0049	0.00093	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Styrene	<0.00074		0.0049	0.00074	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
t-Butylbenzene	<0.00077		0.0049	0.00077	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-14

Date Collected: 05/17/12 11:15

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-14

Matrix: Solid

Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.00098		0.0049	0.00098	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,1,2,2-Tetrachloroethane	<0.00070		0.0049	0.00070	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Tetrachloroethene	<0.00082		0.0049	0.00082	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Toluene	<0.00066		0.0049	0.00066	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,2,3-Trichlorobenzene	<0.0012		0.0049	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,2,4-Trichlorobenzene	<0.00071		0.0049	0.00071	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,1,1-Trichloroethane	<0.0011		0.0049	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,1,2-Trichloroethane	<0.00090		0.0049	0.00090	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Trichloroethene	<0.00047		0.0049	0.00047	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Trichlorofluoromethane	<0.00093		0.0049	0.00093	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,2,3-Trichloropropane	<0.0017		0.0049	0.0017	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,2,4-Trimethylbenzene	<0.00071		0.0049	0.00071	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
1,3,5-Trimethylbenzene	<0.00081		0.0049	0.00081	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Vinyl acetate	<0.0089		0.024	0.0089	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Vinyl chloride	<0.00090		0.0049	0.00090	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Xylenes, Total	<0.0019		0.0098	0.0019	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:24	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene		94		70 - 141			05/22/12 13:00	05/26/12 02:24	1
Dibromofluoromethane		111		71 - 121			05/22/12 13:00	05/26/12 02:24	1
Toluene-d8 (Surr)		101		81 - 116			05/22/12 13:00	05/26/12 02:24	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Acenaphthylene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Anthracene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Benzo[a]anthracene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Benzo[a]pyrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Benzo[b]fluoranthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Benzo[g,h,i]perylene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Benzo[k]fluoranthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Chrysene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Dibenz(a,h)anthracene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Fluoranthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Fluorene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Indeno[1,2,3-cd]pyrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Naphthalene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Phenanthrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Pyrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
1-Methylnaphthalene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
2-Methylnaphthalene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 18:28	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl		71		40 - 102			05/22/12 12:09	05/25/12 18:28	1
Nitrobenzene-d5		80		34 - 102			05/22/12 12:09	05/25/12 18:28	1
Terphenyl-d14		76		49 - 117			05/22/12 12:09	05/25/12 18:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.22		0.55	0.22	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:51	1
Arsenic	1.1		0.55	0.44	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:51	1

Client Sample Results

Client: CERM

TestAmerica Job ID: 400-65593-1

Project/Site: KMBRC - AL

Client Sample ID: PB-14**Lab Sample ID: 400-65593-14**

Date Collected: 05/17/12 11:15

Matrix: Solid

Date Received: 05/18/12 16:10

Percent Solids: 83.9

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	14		1.1	0.22	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:51	1
Cadmium	<0.11		0.55	0.11	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:51	1
Chromium	5.7		0.55	0.22	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:51	1
Lead	4.0		0.55	0.22	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:51	1
Selenium	<0.44		1.1	0.44	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:51	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0033		0.0095	0.0033	mg/Kg	⊗	05/24/12 07:45	05/24/12 12:50	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-15

Date Collected: 05/17/12 11:25

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-15

Matrix: Solid

Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0073		0.025	0.0073	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Benzene	<0.00049		0.0050	0.00049	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Bromobenzene	<0.0013		0.0050	0.0013	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Bromoform	<0.00076		0.0050	0.00076	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Bromochloromethane	<0.00084		0.0050	0.00084	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Bromodichloromethane	<0.00052		0.0050	0.00052	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Bromoform	<0.0014		0.0050	0.0014	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Chlorobenzene	<0.0041		0.025	0.0041	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Chloroethane	<0.0012		0.0050	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Chloroform	<0.0017		0.0050	0.0017	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Chloromethane	<0.00052		0.0050	0.00052	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Chloroethane	<0.0019		0.0050	0.0019	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Chloroform	<0.00059		0.0050	0.00059	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Chloromethane	<0.0010		0.0050	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
2-Chlorotoluene	<0.00098		0.0050	0.00098	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
4-Chlorotoluene	<0.00098		0.0050	0.00098	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Cymene, p-	<0.00078		0.0050	0.00078	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Dibromochloromethane	<0.00087		0.0050	0.00087	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,2-Dibromo-3-Chloropropane	<0.0033		0.0050	0.0033	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Dibromomethane	<0.00083		0.0050	0.00083	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,2-Dichlorobenzene	<0.00071		0.0050	0.00071	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,3-Dichlorobenzene	<0.00095		0.0050	0.00095	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,4-Dichlorobenzene	<0.00082		0.0050	0.00082	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Dichlorodifluoromethane	<0.0013		0.0050	0.0013	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,1-Dichloroethane	<0.00083		0.0050	0.00083	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,2-Dichloroethane	<0.00082		0.0050	0.00082	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,1-Dichloroethene	<0.00075		0.0050	0.00075	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,2-Dichloroethene, cis-	<0.00076		0.0050	0.00076	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,2-Dichloroethene, trans-	<0.00068		0.0050	0.00068	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,2-Dichloropropane	<0.00074		0.0050	0.00074	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,3-Dichloropropane	<0.00065		0.0050	0.00065	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
2,2-Dichloropropane	<0.0018		0.0050	0.0018	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,1-Dichloropropene	<0.00073		0.0050	0.00073	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,3-Dichloropropene, cis-	<0.0012		0.0050	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,3-Dichloropropene, trans-	<0.00092		0.0050	0.00092	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Ethylbenzene	<0.00061		0.0050	0.00061	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Ethylene Dibromide	<0.00048		0.0050	0.00048	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Hexachlorobutadiene	<0.0011		0.0050	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
2-Hexanone	<0.0050		0.025	0.0050	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Iodomethane	<0.0034		0.0050	0.0034	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Cumene	<0.00068		0.0050	0.00068	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Isopropyl ether	<0.00055		0.0050	0.00055	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Methylene Chloride	<0.0034		0.0050	0.0034	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
methyl isobutyl ketone	<0.0040		0.025	0.0040	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Methyl tert-butyl ether	<0.0010		0.0050	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Naphthalene	<0.0010		0.0050	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
n-Butylbenzene	<0.00096		0.0050	0.00096	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
n-Propylbenzene	<0.00090		0.0050	0.00090	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
sec-Butylbenzene	<0.00095		0.0050	0.00095	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Styrene	<0.00076		0.0050	0.00076	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
t-Butylbenzene	<0.00079		0.0050	0.00079	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-15

Date Collected: 05/17/12 11:25

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-15

Matrix: Solid

Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.0010		0.0050	0.0010	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,1,2,2-Tetrachloroethane	<0.00072		0.0050	0.00072	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Tetrachloroethene	<0.00084		0.0050	0.00084	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Toluene	<0.00068		0.0050	0.00068	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,2,3-Trichlorobenzene	<0.0012		0.0050	0.0012	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,2,4-Trichlorobenzene	<0.00073		0.0050	0.00073	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,1,1-Trichloroethane	<0.0011		0.0050	0.0011	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,1,2-Trichloroethane	<0.00092		0.0050	0.00092	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Trichloroethene	<0.00048		0.0050	0.00048	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Trichlorofluoromethane	<0.00095		0.0050	0.00095	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,2,3-Trichloropropane	<0.0017		0.0050	0.0017	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,2,4-Trimethylbenzene	<0.00073		0.0050	0.00073	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
1,3,5-Trimethylbenzene	<0.00083		0.0050	0.00083	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Vinyl acetate	<0.0091		0.025	0.0091	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Vinyl chloride	<0.00092		0.0050	0.00092	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Xylenes, Total	<0.0019		0.010	0.0019	mg/Kg	⊗	05/22/12 13:00	05/26/12 02:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 141				05/22/12 13:00	05/26/12 02:44	1
Dibromofluoromethane	109		71 - 121				05/22/12 13:00	05/26/12 02:44	1
Toluene-d8 (Surr)	101		81 - 116				05/22/12 13:00	05/26/12 02:44	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Acenaphthylene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Anthracene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Benzo[a]anthracene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Benzo[a]pyrene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Benzo[b]fluoranthene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Benzo[g,h,i]perylene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Benzo[k]fluoranthene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Chrysene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Dibenz(a,h)anthracene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Fluoranthene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Fluorene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Indeno[1,2,3-cd]pyrene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Naphthalene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Phenanthrene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Pyrene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
1-Methylnaphthalene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
2-Methylnaphthalene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		40 - 102				05/22/12 12:09	05/25/12 19:03	1
Nitrobenzene-d5	94		34 - 102				05/22/12 12:09	05/25/12 19:03	1
Terphenyl-d14	96		49 - 117				05/22/12 12:09	05/25/12 19:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.23		0.56	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:54	1
Arsenic	0.93		0.56	0.45	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:54	1

Client Sample Results

Client: CERM

TestAmerica Job ID: 400-65593-1

Project/Site: KMBRC - AL

Client Sample ID: PB-15**Lab Sample ID: 400-65593-15**

Date Collected: 05/17/12 11:25

Matrix: Solid

Date Received: 05/18/12 16:10

Percent Solids: 87.5

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	13		1.1	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:54	1
Cadmium	<0.11		0.56	0.11	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:54	1
Chromium	5.8		0.56	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:54	1
Lead	4.2		0.56	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:54	1
Selenium	<0.45		1.1	0.45	mg/Kg	⊗	05/21/12 18:23	05/23/12 20:54	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0031		0.0090	0.0031	mg/Kg	⊗	05/24/12 07:45	05/24/12 12:51	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-17/TW7

Date Collected: 05/17/12 13:20

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-16

Matrix: Solid

Percent Solids: 87.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Acenaphthylene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Anthracene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Benzidine	<0.11		1.1	0.11	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
4-Chloro-3-methylphenol	<0.038 *		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
4,6-Dinitro-2-methylphenol	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
4-Nitrophenol	<0.13		0.38	0.13	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
4-Bromophenyl phenyl ether	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
4-Chloroaniline	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
4-Chlorophenyl phenyl ether	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
4-Nitroaniline	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2-Chlorophenol	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2,4-Dichlorophenol	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2,6-Dichlorophenol	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2,4-Dimethylphenol	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2,4-Dinitrophenol	<0.33		1.1	0.33	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2-Methylphenol	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2-Nitrophenol	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Pentachlorophenol	<0.076		0.76	0.076	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Phenol	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
3 & 4 Methylphenol	<0.038		0.76	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2,4,5-Trichlorophenol	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2,4,6-Trichlorophenol	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Benzo[a]anthracene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Benzo[a]pyrene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Benzo[b]fluoranthene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Benzo[g,h,i]perylene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Benzo[k]fluoranthene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Benzyl alcohol	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Butyl benzyl phthalate	<0.038 *		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Bis(2-chloroethoxy)methane	<0.038 *		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Bis(2-chloroethyl)ether	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2,2'-oxybis[1-chloropropane]	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Bis(2-ethylhexyl) phthalate	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Chrysene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Dibenz(a,h)anthracene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Dibenzo furan	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Di-n-butyl phthalate	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Di-n-octyl phthalate	<0.038 *		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Fluoranthene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Fluorene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Hexachlorobenzene	<0.11		0.38	0.11	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Hexachlorobutadiene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Hexachlorocyclopentadiene	<0.076		0.38	0.076	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Hexachloroethane	<0.11		0.38	0.11	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Indeno[1,2,3-cd]pyrene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Isophorone	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Naphthalene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
N-Nitrosodi-n-butylamine	<0.076		0.38	0.076	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
N-Nitrosodimethylamine	<0.076		0.38	0.076	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
N-Nitrosodiphenylamine	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-17/TW7

Date Collected: 05/17/12 13:20

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-16

Matrix: Solid

Percent Solids: 87.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.13		0.38	0.13	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Phenanthrene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Pyrene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
1,2-Dichlorobenzene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
1,3-Dichlorobenzene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
1,4-Dichlorobenzene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2-Chloronaphthalene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
3,3'-Dichlorobenzidine	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Diethyl phthalate	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Dimethyl phthalate	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2,4-Dinitrotoluene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2,6-Dinitrotoluene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
1,2-Diphenylhydrazine	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
1-Methylnaphthalene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2-Methylnaphthalene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
2-Nitroaniline	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
3-Nitroaniline	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Nitrobenzene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
1,2,4-Trichlorobenzene	<0.038		0.38	0.038	mg/Kg	⊗	05/22/12 12:09	05/25/12 19:39	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67			29 - 118			05/22/12 12:09	05/25/12 19:39	1
2-Fluorobiphenyl	83			40 - 102			05/22/12 12:09	05/25/12 19:39	1
2-Fluorophenol	79			30 - 106			05/22/12 12:09	05/25/12 19:39	1
Nitrobenzene-d5	91			34 - 102			05/22/12 12:09	05/25/12 19:39	1
Phenol-d5	85			36 - 101			05/22/12 12:09	05/25/12 19:39	1
Terphenyl-d14	94			49 - 117			05/22/12 12:09	05/25/12 19:39	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0027		0.019	0.0027	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:23	1
PCB-1221	<0.0091		0.019	0.0091	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:23	1
PCB-1232	<0.013		0.019	0.013	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:23	1
PCB-1242	<0.0094		0.019	0.0094	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:23	1
PCB-1248	<0.0038		0.019	0.0038	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:23	1
PCB-1254	<0.0024		0.019	0.0024	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:23	1
PCB-1260	<0.0014		0.019	0.0014	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:23	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87			30 - 150			05/21/12 15:41	05/23/12 03:23	1
Tetrachloro-m-xylene	90			43 - 142			05/21/12 15:41	05/23/12 03:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.23		0.57	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 22:01	1
Arsenic	0.93		0.57	0.46	mg/Kg	⊗	05/21/12 18:23	05/23/12 22:01	1
Barium	11		1.1	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 22:01	1
Cadmium	<0.11		0.57	0.11	mg/Kg	⊗	05/21/12 18:23	05/23/12 22:01	1
Chromium	6.4		0.57	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 22:01	1
Lead	4.2		0.57	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 22:01	1
Selenium	<0.46		1.1	0.46	mg/Kg	⊗	05/21/12 18:23	05/23/12 22:01	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-17/TW7

Date Collected: 05/17/12 13:20

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-16

Matrix: Solid

Percent Solids: 87.0

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0031		0.0089	0.0031	mg/Kg	☀	05/22/12 09:50	05/22/12 15:50	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-18/TW8

Date Collected: 05/17/12 13:55

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-17

Matrix: Solid

Percent Solids: 84.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Acenaphthylene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Anthracene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Benzidine	<0.12		1.2	0.12	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
4-Chloro-3-methylphenol	<0.039 *		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
4,6-Dinitro-2-methylphenol	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
4-Nitrophenol	<0.13		0.39	0.13	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
4-Bromophenyl phenyl ether	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
4-Chloroaniline	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
4-Chlorophenyl phenyl ether	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
4-Nitroaniline	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2-Chlorophenol	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2,4-Dichlorophenol	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2,6-Dichlorophenol	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2,4-Dimethylphenol	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2,4-Dinitrophenol	<0.34		1.2	0.34	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2-Methylphenol	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2-Nitrophenol	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Pentachlorophenol	<0.078		0.78	0.078	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Phenol	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
3 & 4 Methylphenol	<0.039		0.78	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2,4,5-Trichlorophenol	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2,4,6-Trichlorophenol	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Benzo[a]anthracene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Benzo[a]pyrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Benzo[b]fluoranthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Benzo[g,h,i]perylene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Benzo[k]fluoranthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Benzyl alcohol	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Butyl benzyl phthalate	<0.039 *		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Bis(2-chloroethoxy)methane	<0.039 *		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Bis(2-chloroethyl)ether	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2,2'-oxybis[1-chloropropane]	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Bis(2-ethylhexyl) phthalate	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Chrysene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Dibenz(a,h)anthracene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Dibenzo furan	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Di-n-butyl phthalate	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Di-n-octyl phthalate	<0.039 *		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Fluoranthene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Fluorene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Hexachlorobenzene	<0.12		0.39	0.12	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Hexachlorobutadiene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Hexachlorocyclopentadiene	<0.078		0.39	0.078	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Hexachloroethane	<0.12		0.39	0.12	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Indeno[1,2,3-cd]pyrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Isophorone	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Naphthalene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
N-Nitrosodi-n-butylamine	<0.078		0.39	0.078	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
N-Nitrosodimethylamine	<0.078		0.39	0.078	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
N-Nitrosodiphenylamine	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-18/TW8

Date Collected: 05/17/12 13:55

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-17

Matrix: Solid

Percent Solids: 84.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.13		0.39	0.13	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Phenanthrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Pyrene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
1,2-Dichlorobenzene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
1,3-Dichlorobenzene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
1,4-Dichlorobenzene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2-Chloronaphthalene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
3,3'-Dichlorobenzidine	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Diethyl phthalate	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Dimethyl phthalate	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2,4-Dinitrotoluene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2,6-Dinitrotoluene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
1,2-Diphenylhydrazine	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
1-Methylnaphthalene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2-Methylnaphthalene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
2-Nitroaniline	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
3-Nitroaniline	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Nitrobenzene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
1,2,4-Trichlorobenzene	<0.039		0.39	0.039	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:15	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75			29 - 118			05/22/12 12:09	05/25/12 20:15	1
2-Fluorobiphenyl	88			40 - 102			05/22/12 12:09	05/25/12 20:15	1
2-Fluorophenol	81			30 - 106			05/22/12 12:09	05/25/12 20:15	1
Nitrobenzene-d5	92			34 - 102			05/22/12 12:09	05/25/12 20:15	1
Phenol-d5	89			36 - 101			05/22/12 12:09	05/25/12 20:15	1
Terphenyl-d14	107			49 - 117			05/22/12 12:09	05/25/12 20:15	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.014		0.10	0.014	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:41	5
PCB-1221	<0.047		0.10	0.047	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:41	5
PCB-1232	<0.065		0.10	0.065	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:41	5
PCB-1242	<0.048		0.10	0.048	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:41	5
PCB-1248	<0.019		0.10	0.019	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:41	5
PCB-1254	<0.012		0.10	0.012	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:41	5
PCB-1260	<0.0071		0.10	0.0071	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:41	5
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74			30 - 150			05/21/12 15:41	05/23/12 03:41	5
Tetrachloro-m-xylene	118			43 - 142			05/21/12 15:41	05/23/12 03:41	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.23		0.58	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:07	1
Arsenic	1.7		0.58	0.47	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:07	1
Barium	12		1.2	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:07	1
Cadmium	<0.12		0.58	0.12	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:07	1
Chromium	8.4		0.58	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:07	1
Lead	14		0.58	0.23	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:07	1
Selenium	<0.47		1.2	0.47	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:07	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-18/TW8

Date Collected: 05/17/12 13:55

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-17

Matrix: Solid

Percent Solids: 84.2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13	B	0.0093	0.0032	mg/Kg		05/22/12 09:50	05/22/12 15:51	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-19/TW9

Date Collected: 05/17/12 14:30

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-18

Matrix: Solid

Percent Solids: 81.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Acenaphthylene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Anthracene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Benzidine	<0.12		1.2	0.12	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
4-Chloro-3-methylphenol	<0.040 *		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
4,6-Dinitro-2-methylphenol	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
4-Nitrophenol	<0.13		0.40	0.13	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
4-Bromophenyl phenyl ether	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
4-Chloroaniline	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
4-Chlorophenyl phenyl ether	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
4-Nitroaniline	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2-Chlorophenol	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2,4-Dichlorophenol	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2,6-Dichlorophenol	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2,4-Dimethylphenol	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2,4-Dinitrophenol	<0.36		1.2	0.36	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2-Methylphenol	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2-Nitrophenol	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Pentachlorophenol	<0.081		0.81	0.081	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Phenol	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
3 & 4 Methylphenol	<0.040		0.81	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2,4,5-Trichlorophenol	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2,4,6-Trichlorophenol	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Benzo[a]anthracene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Benzo[a]pyrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Benzo[b]fluoranthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Benzo[g,h,i]perylene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Benzo[k]fluoranthene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Benzyl alcohol	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Butyl benzyl phthalate	<0.040 *		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Bis(2-chloroethoxy)methane	<0.040 *		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Bis(2-chloroethyl)ether	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2,2'-oxybis[1-chloropropane]	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Bis(2-ethylhexyl) phthalate	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Chrysene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Dibenz(a,h)anthracene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Dibenzo furan	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Di-n-butyl phthalate	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Di-n-octyl phthalate	<0.040 *		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Fluoranthene	0.050 J		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Fluorene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Hexachlorobenzene	<0.12		0.40	0.12	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Hexachlorobutadiene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Hexachlorocyclopentadiene	<0.081		0.40	0.081	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Hexachloroethane	<0.12		0.40	0.12	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Indeno[1,2,3-cd]pyrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Isophorone	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Naphthalene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
N-Nitrosodi-n-butylamine	<0.081		0.40	0.081	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
N-Nitrosodimethylamine	<0.081		0.40	0.081	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
N-Nitrosodiphenylamine	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-19/TW9

Date Collected: 05/17/12 14:30

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-18

Matrix: Solid

Percent Solids: 81.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.13		0.40	0.13	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Phenanthrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Pyrene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
1,2-Dichlorobenzene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
1,3-Dichlorobenzene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
1,4-Dichlorobenzene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2-Chloronaphthalene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
3,3'-Dichlorobenzidine	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Diethyl phthalate	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Dimethyl phthalate	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2,4-Dinitrotoluene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2,6-Dinitrotoluene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
1,2-Diphenylhydrazine	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
1-Methylnaphthalene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2-Methylnaphthalene	0.061 J		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
2-Nitroaniline	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
3-Nitroaniline	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Nitrobenzene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
1,2,4-Trichlorobenzene	<0.040		0.40	0.040	mg/Kg	⊗	05/22/12 12:09	05/25/12 20:50	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60			29 - 118			05/22/12 12:09	05/25/12 20:50	1
2-Fluorobiphenyl	74			40 - 102			05/22/12 12:09	05/25/12 20:50	1
2-Fluorophenol	72			30 - 106			05/22/12 12:09	05/25/12 20:50	1
Nitrobenzene-d5	82			34 - 102			05/22/12 12:09	05/25/12 20:50	1
Phenol-d5	77			36 - 101			05/22/12 12:09	05/25/12 20:50	1
Terphenyl-d14	81			49 - 117			05/22/12 12:09	05/25/12 20:50	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0029		0.021	0.0029	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:59	1
PCB-1221	<0.0098		0.021	0.0098	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:59	1
PCB-1232	<0.013		0.021	0.013	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:59	1
PCB-1242	<0.010		0.021	0.010	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:59	1
PCB-1248	<0.0040		0.021	0.0040	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:59	1
PCB-1254	<0.0026		0.021	0.0026	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:59	1
PCB-1260	<0.0015		0.021	0.0015	mg/Kg	⊗	05/21/12 15:41	05/23/12 03:59	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	85			30 - 150			05/21/12 15:41	05/23/12 03:59	1
Tetrachloro-m-xylene	87			43 - 142			05/21/12 15:41	05/23/12 03:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.24		0.61	0.24	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:10	1
Arsenic	1.9		0.61	0.49	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:10	1
Barium	15		1.2	0.24	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:10	1
Cadmium	<0.12		0.61	0.12	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:10	1
Chromium	9.0		0.61	0.24	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:10	1
Lead	24		0.61	0.24	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:10	1
Selenium	<0.49		1.2	0.49	mg/Kg	⊗	05/21/12 18:23	05/23/12 21:10	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-19/TW9

Date Collected: 05/17/12 14:30

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-18

Matrix: Solid

Percent Solids: 81.1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037	B	0.0098	0.0034	mg/Kg	☀	05/22/12 09:50	05/22/12 15:53	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-11

Date Collected: 05/17/12 15:20

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-19

Matrix: Solid

Percent Solids: 87.3

Method: 8260B - BTEX+MTBE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00043		0.0044	0.00043	mg/Kg	⊗	05/22/12 13:00	05/26/12 03:04	1
Toluene	<0.00059		0.0044	0.00059	mg/Kg	⊗	05/22/12 13:00	05/26/12 03:04	1
Ethylbenzene	<0.00053		0.0044	0.00053	mg/Kg	⊗	05/22/12 13:00	05/26/12 03:04	1
Xylenes, Total	<0.0017		0.0087	0.0017	mg/Kg	⊗	05/22/12 13:00	05/26/12 03:04	1
Methyl tert-butyl ether	<0.00087		0.0044	0.00087	mg/Kg	⊗	05/22/12 13:00	05/26/12 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 141				05/22/12 13:00	05/26/12 03:04	1
Dibromofluoromethane	111		71 - 121				05/22/12 13:00	05/26/12 03:04	1
Toluene-d8 (Surr)	101		81 - 116				05/22/12 13:00	05/26/12 03:04	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Acenaphthylene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Anthracene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Benzo[a]anthracene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Benzo[a]pyrene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Benzo[b]fluoranthene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Benzo[g,h,i]perylene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Benzo[k]fluoranthene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Chrysene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Dibenz(a,h)anthracene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Fluoranthene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Fluorene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Indeno[1,2,3-cd]pyrene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Naphthalene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Phenanthrene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Pyrene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
1-Methylnaphthalene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
2-Methylnaphthalene	<0.037		0.37	0.037	mg/Kg	⊗	05/22/12 12:09	05/25/12 21:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		40 - 102				05/22/12 12:09	05/25/12 21:26	1
Nitrobenzene-d5	82		34 - 102				05/22/12 12:09	05/25/12 21:26	1
Terphenyl-d14	83		49 - 117				05/22/12 12:09	05/25/12 21:26	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: TRIP BLANK**Lab Sample ID: 400-65593-20**

Date Collected: 05/17/12 00:00

Matrix: Water

Date Received: 05/18/12 16:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0035		0.025	0.0035	mg/L			05/23/12 19:08	1
Benzene	<0.00034		0.0010	0.00034	mg/L			05/23/12 19:08	1
Bromobenzene	<0.00054		0.0010	0.00054	mg/L			05/23/12 19:08	1
Bromochloromethane	<0.00052		0.0010	0.00052	mg/L			05/23/12 19:08	1
Bromodichloromethane	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
Bromoform	<0.00071		0.0050	0.00071	mg/L			05/23/12 19:08	1
Bromomethane	<0.00098		0.0010	0.00098	mg/L			05/23/12 19:08	1
Methyl Ethyl Ketone	<0.0026		0.025	0.0026	mg/L			05/23/12 19:08	1
Carbon disulfide	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
Chloroethane	<0.00076		0.0010	0.00076	mg/L			05/23/12 19:08	1
Chloroform	<0.00060		0.0010	0.00060	mg/L			05/23/12 19:08	1
Chloromethane	<0.00083		0.0010	0.00083	mg/L			05/23/12 19:08	1
2-Chlorotoluene	<0.00057		0.0010	0.00057	mg/L			05/23/12 19:08	1
4-Chlorotoluene	<0.00056		0.0010	0.00056	mg/L			05/23/12 19:08	1
Cumene	<0.00053		0.0010	0.00053	mg/L			05/23/12 19:08	1
Cymene, p-	<0.00071		0.0010	0.00071	mg/L			05/23/12 19:08	1
Dibromochloromethane	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
1,2-Dibromo-3-Chloropropane	<0.00078		0.0050	0.00078	mg/L			05/23/12 19:08	1
Dibromomethane	<0.00059		0.0050	0.00059	mg/L			05/23/12 19:08	1
1,2-Dichlorobenzene	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
1,3-Dichlorobenzene	<0.00054		0.0010	0.00054	mg/L			05/23/12 19:08	1
1,4-Dichlorobenzene	<0.00064		0.0010	0.00064	mg/L			05/23/12 19:08	1
Dichlorodifluoromethane	<0.00085		0.0010	0.00085	mg/L			05/23/12 19:08	1
1,1-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
1,2-Dichloroethene, cis-	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
1,2-Dichloroethene, trans-	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
1,2-Dichloropropane	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
1,3-Dichloropropane	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
2,2-Dichloropropane	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
1,1-Dichloropropene	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
1,3-Dichloropropene, cis-	<0.00050		0.0050	0.00050	mg/L			05/23/12 19:08	1
1,3-Dichloropropene, trans-	<0.00050		0.0050	0.00050	mg/L			05/23/12 19:08	1
Ethylbenzene	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
Ethylene Dibromide	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
Hexachlorobutadiene	<0.00090		0.0050	0.00090	mg/L			05/23/12 19:08	1
2-Hexanone	<0.0031		0.025	0.0031	mg/L			05/23/12 19:08	1
Iodomethane	<0.00061		0.0010	0.00061	mg/L			05/23/12 19:08	1
Isopropyl ether	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
Methylene Chloride	<0.0010		0.0010	0.0010	mg/L			05/23/12 19:08	1
methyl isobutyl ketone	<0.0018		0.025	0.0018	mg/L			05/23/12 19:08	1
Methyl tert-butyl ether	<0.00074		0.0010	0.00074	mg/L			05/23/12 19:08	1
Naphthalene	<0.0010		0.0010	0.0010	mg/L			05/23/12 19:08	1
n-Butylbenzene	<0.00076		0.0010	0.00076	mg/L			05/23/12 19:08	1
n-Propylbenzene	<0.00069		0.0010	0.00069	mg/L			05/23/12 19:08	1
sec-Butylbenzene	<0.00070		0.0010	0.00070	mg/L			05/23/12 19:08	1
Styrene	<0.0010		0.0010	0.0010	mg/L			05/23/12 19:08	1
t-Butylbenzene	<0.00063		0.0010	0.00063	mg/L			05/23/12 19:08	1

Client Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: TRIP BLANK**Lab Sample ID: 400-65593-20**

Date Collected: 05/17/12 00:00

Matrix: Water

Date Received: 05/18/12 16:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.00052		0.0010	0.00052	mg/L			05/23/12 19:08	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
Tetrachloroethene	<0.00058		0.0010	0.00058	mg/L			05/23/12 19:08	1
Toluene	<0.00070		0.0010	0.00070	mg/L			05/23/12 19:08	1
1,2,3-Trichlorobenzene	<0.00070		0.0010	0.00070	mg/L			05/23/12 19:08	1
1,2,4-Trichlorobenzene	<0.00082		0.0010	0.00082	mg/L			05/23/12 19:08	1
1,1,1-Trichloroethane	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
1,1,2-Trichloroethane	<0.00050		0.0050	0.00050	mg/L			05/23/12 19:08	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
Trichlorofluoromethane	<0.00052		0.0010	0.00052	mg/L			05/23/12 19:08	1
1,2,3-Trichloropropane	<0.00086		0.0050	0.00086	mg/L			05/23/12 19:08	1
1,2,4-Trimethylbenzene	<0.00082		0.0010	0.00082	mg/L			05/23/12 19:08	1
1,3,5-Trimethylbenzene	<0.00056		0.0010	0.00056	mg/L			05/23/12 19:08	1
Vinyl acetate	<0.0020		0.025	0.0020	mg/L			05/23/12 19:08	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			05/23/12 19:08	1
Xylenes, Total	<0.0016		0.010	0.0016	mg/L			05/23/12 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		79 - 118		05/23/12 19:08	1
Dibromofluoromethane	102		79 - 119		05/23/12 19:08	1
Toluene-d8 (Surr)	119		80 - 120		05/23/12 19:08	1

Definitions/Glossary

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
干	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8260B	BTEX+MTBE	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PEN
6010B	Metals (ICP)	SW846	TAL PEN
7471A	Mercury (CVAA)	SW846	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-12/TW5

Lab Sample ID: 400-65593-1

Date Collected: 05/18/12 08:40

Matrix: Solid

Date Received: 05/18/12 16:10

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/25/12 21:57	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155388	05/25/12 00:09	JP	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: PB-9/TW4

Lab Sample ID: 400-65593-2

Date Collected: 05/18/12 09:00

Matrix: Solid

Date Received: 05/18/12 16:10

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/25/12 22:18	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155388	05/25/12 01:55	JP	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: PB-10

Lab Sample ID: 400-65593-3

Date Collected: 05/18/12 09:20

Matrix: Solid

Date Received: 05/18/12 16:10

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/25/12 22:39	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155388	05/25/12 00:44	JP	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: PB-2

Lab Sample ID: 400-65593-4

Date Collected: 05/18/12 09:55

Matrix: Solid

Date Received: 05/18/12 16:10

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/25/12 22:59	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155388	05/25/12 01:19	JP	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Lab Chronicle

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-1/TW1

Date Collected: 05/18/12 10:10

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-5

Matrix: Solid

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		500	155550	05/25/12 23:20	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155486	05/25/12 13:42	JP	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: PB-3/TW2

Date Collected: 05/18/12 10:30

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-6

Matrix: Solid

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/25/12 23:40	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155486	05/25/12 14:54	JP	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: PB-5

Date Collected: 05/18/12 10:55

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-7

Matrix: Solid

Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/26/12 00:00	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155486	05/25/12 15:29	JP	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: PB-4/TW10

Date Collected: 05/18/12 11:25

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-8

Matrix: Solid

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/26/12 00:21	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155486	05/25/12 16:05	JP	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Lab Chronicle

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: DUP

Date Collected: 05/18/12 00:00

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-9

Matrix: Solid

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/26/12 00:41	MG	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: PB-8/TW3

Date Collected: 05/17/12 09:30

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-10

Matrix: Solid

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/26/12 01:02	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155388	05/24/12 23:33	JP	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: PB-7

Date Collected: 05/17/12 10:05

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-11

Matrix: Solid

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/26/12 01:22	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155486	05/25/12 16:41	JP	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: PB-13

Date Collected: 05/17/12 10:35

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-12

Matrix: Solid

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/26/12 01:43	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155486	05/25/12 17:16	JP	TAL PEN
Total/NA	Prep	3050B			155157	05/21/12 18:23	KN	TAL PEN
Total/NA	Analysis	6010B		1	155339	05/23/12 20:32	GS	TAL PEN
Total/NA	Prep	7471A			155350	05/24/12 07:45	BG	TAL PEN
Total/NA	Analysis	7471A		1	155398	05/24/12 12:37	BG	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Lab Chronicle

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-16

Date Collected: 05/17/12 10:55

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-13

Matrix: Solid

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/26/12 02:03	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155486	05/25/12 17:52	JP	TAL PEN
Total/NA	Prep	3050B			155157	05/21/12 18:23	KN	TAL PEN
Total/NA	Analysis	6010B		1	155339	05/23/12 20:47	GS	TAL PEN
Total/NA	Prep	7471A			155350	05/24/12 07:45	BG	TAL PEN
Total/NA	Analysis	7471A		1	155398	05/24/12 12:48	BG	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: PB-14

Date Collected: 05/17/12 11:15

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-14

Matrix: Solid

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/26/12 02:24	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155486	05/25/12 18:28	JP	TAL PEN
Total/NA	Prep	3050B			155157	05/21/12 18:23	KN	TAL PEN
Total/NA	Analysis	6010B		1	155339	05/23/12 20:51	GS	TAL PEN
Total/NA	Prep	7471A			155350	05/24/12 07:45	BG	TAL PEN
Total/NA	Analysis	7471A		1	155398	05/24/12 12:50	BG	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: PB-15

Date Collected: 05/17/12 11:25

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-15

Matrix: Solid

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/26/12 02:44	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155486	05/25/12 19:03	JP	TAL PEN
Total/NA	Prep	3050B			155157	05/21/12 18:23	KN	TAL PEN
Total/NA	Analysis	6010B		1	155339	05/23/12 20:54	GS	TAL PEN
Total/NA	Prep	7471A			155350	05/24/12 07:45	BG	TAL PEN
Total/NA	Analysis	7471A		1	155398	05/24/12 12:51	BG	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Lab Chronicle

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-17/TW7

Date Collected: 05/17/12 13:20

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-16

Matrix: Solid

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155486	05/25/12 19:39	JP	TAL PEN
Total/NA	Prep	3550C			155117	05/21/12 15:41	RT	TAL PEN
Total/NA	Analysis	8082A		1	155306	05/23/12 03:23	VC	TAL PEN
Total/NA	Prep	7471A			155188	05/22/12 09:50	BG	TAL PEN
Total/NA	Analysis	7471A		1	155228	05/22/12 15:50	BG	TAL PEN
Total/NA	Prep	3050B			155157	05/21/12 18:23	KN	TAL PEN
Total/NA	Analysis	6010B		1	155339	05/23/12 22:01	GS	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: PB-18/TW8

Date Collected: 05/17/12 13:55

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-17

Matrix: Solid

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155486	05/25/12 20:15	JP	TAL PEN
Total/NA	Prep	3550C			155117	05/21/12 15:41	RT	TAL PEN
Total/NA	Analysis	8082A		5	155306	05/23/12 03:41	VC	TAL PEN
Total/NA	Prep	7471A			155188	05/22/12 09:50	BG	TAL PEN
Total/NA	Analysis	7471A		1	155228	05/22/12 15:51	BG	TAL PEN
Total/NA	Prep	3050B			155157	05/21/12 18:23	KN	TAL PEN
Total/NA	Analysis	6010B		1	155339	05/23/12 21:07	GS	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: PB-19/TW9

Date Collected: 05/17/12 14:30

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-18

Matrix: Solid

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155486	05/25/12 20:50	JP	TAL PEN
Total/NA	Prep	3550C			155117	05/21/12 15:41	RT	TAL PEN
Total/NA	Analysis	8082A		1	155306	05/23/12 03:59	VC	TAL PEN
Total/NA	Prep	7471A			155188	05/22/12 09:50	BG	TAL PEN
Total/NA	Analysis	7471A		1	155228	05/22/12 15:53	BG	TAL PEN
Total/NA	Prep	3050B			155157	05/21/12 18:23	KN	TAL PEN
Total/NA	Analysis	6010B		1	155339	05/23/12 21:10	GS	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Lab Chronicle

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Client Sample ID: PB-11

Date Collected: 05/17/12 15:20

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-19

Matrix: Solid

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			155536	05/22/12 13:00	MG	TAL PEN
Total/NA	Analysis	8260B		1	155550	05/26/12 03:04	MG	TAL PEN
Total/NA	Prep	3550B			155206	05/22/12 12:09	RT	TAL PEN
Total/NA	Analysis	8270C		1	155486	05/25/12 21:26	JP	TAL PEN
Total/NA	Analysis	Moisture		1	155120	05/21/12 13:46	MS	TAL PEN

Client Sample ID: TRIP BLANK

Date Collected: 05/17/12 00:00

Date Received: 05/18/12 16:10

Lab Sample ID: 400-65593-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	155246	05/23/12 19:08	JL	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Surrogate Summary

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - BTEX+MTBE

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-141)	DBFM (71-121)	TOL (81-116)
400-65593-1	PB-12/TW5	93	108	102
400-65593-2	PB-9/TW4	94	109	101
400-65593-3	PB-10	94	110	101
400-65593-4	PB-2	94	107	101
400-65593-5	PB-1/TW1	94	103	104
400-65593-6	PB-3/TW2	94	110	101
400-65593-7	PB-5	95	110	101
400-65593-8	PB-4/TW10	94	110	101
400-65593-10	PB-8/TW3	94	109	100
400-65593-11	PB-7	94	111	100
400-65593-19	PB-11	95	111	101
LCS 400-155536/2-A	Lab Control Sample	98	99	100
LCSD 400-155536/3-A	Lab Control Sample Dup	97	98	100
MB 400-155536/1-A	Method Blank	95	100	101

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-141)	DBFM (71-121)	TOL (81-116)
400-65593-9	DUP	96	112	100
400-65593-12	PB-13	95	111	102
400-65593-13	PB-16	93	111	101
400-65593-14	PB-14	94	111	101
400-65593-15	PB-15	94	109	101

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (79-118)	DBFM (79-119)	TOL (80-120)
400-65436-B-26 MS	Matrix Spike	104	105	101
400-65436-B-26 MSD	Matrix Spike Duplicate	104	105	100
400-65593-20	TRIP BLANK	105	102	119
LCS 400-155246/9	Lab Control Sample	100	104	102
LCS 400-155427/5	Lab Control Sample	104	105	100
MB 400-155246/7	Method Blank	105	103	109
MB 400-155427/4	Method Blank	106	98	99

Surrogate Legend

Surrogate Summary

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (29-118)	2FP (30-106)	PHL (36-101)	FBP (40-102)	NBZ (34-102)	TPH (49-117)
400-65593-1	PB-12/TW5				86	86	92
400-65593-2	PB-9/TW4				87	88	97
400-65593-3	PB-10				76	78	83
400-65593-4	PB-2				82	80	88
400-65593-5	PB-1/TW1				68	64	80
400-65593-6	PB-3/TW2				79	81	86
400-65593-7	PB-5				91	93	100
400-65593-8	PB-4/TW10				66	67	70
400-65593-10	PB-8/TW3				77	78	91
400-65593-10 MS	PB-8/TW3	75	76	82	88	88	87
400-65593-10 MSD	PB-8/TW3	61	69	72	73	70	77
400-65593-11	PB-7				79	79	92
400-65593-12	PB-13				81	89	89
400-65593-13	PB-16				78	85	96
400-65593-14	PB-14				71	80	76
400-65593-15	PB-15				81	94	96
400-65593-16	PB-17/TW7	67	79	85	83	91	94
400-65593-17	PB-18/TW8	75	81	89	88	92	107
400-65593-18	PB-19/TW9	60	72	77	74	82	81
400-65593-19	PB-11				77	82	83
LCS 400-155206/23-A	Lab Control Sample	85	91	95	94	94	101
MB 400-155206/24-A	Method Blank	77	82	87	91	90	103

Surrogate Legend

TBP = 2,4,6-Tribromophenol

2FP = 2-Fluorophenol

PHL = Phenol-d5

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPH = Terphenyl-d14

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (30-150)	TCX1 (43-142)
400-65501-B-1-H MS	Matrix Spike	99	107
400-65501-B-1-I MSD	Matrix Spike Duplicate	93	99
400-65593-16	PB-17/TW7	87	90
400-65593-17	PB-18/TW8	74	118
400-65593-18	PB-19/TW9	85	87
LCS 400-155117/13-A	Lab Control Sample	104	123
MB 400-155117/14-A	Method Blank	90	108

Surrogate Legend

DCB = DCB Decachlorobiphenyl

Surrogate Summary

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

TCX = Tetrachloro-m-xylene

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QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - BTEX+MTBE

Lab Sample ID: MB 400-155536/1-A

Matrix: Solid

Analysis Batch: 155550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155536

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0073		0.025	0.0073	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Benzene	<0.00049		0.0050	0.00049	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Bromobenzene	<0.0013		0.0050	0.0013	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Bromochloromethane	<0.00076		0.0050	0.00076	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Bromodichloromethane	<0.00084		0.0050	0.00084	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Bromoform	<0.00052		0.0050	0.00052	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Bromomethane	<0.0014		0.0050	0.0014	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Methyl Ethyl Ketone	<0.0041		0.025	0.0041	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Carbon disulfide	<0.0012		0.0050	0.0012	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Carbon tetrachloride	<0.0017		0.0050	0.0017	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Chlorobenzene	<0.00052		0.0050	0.00052	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Chloroethane	<0.0019		0.0050	0.0019	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Chloroform	<0.00059		0.0050	0.00059	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Chloromethane	<0.0010		0.0050	0.0010	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
2-Chlorotoluene	<0.00098		0.0050	0.00098	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
4-Chlorotoluene	<0.00098		0.0050	0.00098	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Cymene, p-	<0.00078		0.0050	0.00078	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Dibromochloromethane	<0.00087		0.0050	0.00087	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,2-Dibromo-3-Chloropropane	<0.0033		0.0050	0.0033	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Dibromomethane	<0.00083		0.0050	0.00083	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,2-Dichlorobenzene	<0.00071		0.0050	0.00071	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,3-Dichlorobenzene	<0.00095		0.0050	0.00095	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,4-Dichlorobenzene	<0.00082		0.0050	0.00082	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Dichlorodifluoromethane	<0.0013		0.0050	0.0013	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,1-Dichloroethane	<0.00083		0.0050	0.00083	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,2-Dichloroethane	<0.00082		0.0050	0.00082	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,1-Dichloroethylene	<0.00075		0.0050	0.00075	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,2-Dichloroethylene, cis-	<0.00076		0.0050	0.00076	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,2-Dichloroethylene, trans-	<0.00068		0.0050	0.00068	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,2-Dichloropropane	<0.00074		0.0050	0.00074	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,3-Dichloropropane	<0.00065		0.0050	0.00065	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
2,2-Dichloropropane	<0.0018		0.0050	0.0018	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,1-Dichloropropene	<0.00073		0.0050	0.00073	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,3-Dichloropropene, cis-	<0.0012		0.0050	0.0012	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
1,3-Dichloropropene, trans-	<0.00092		0.0050	0.00092	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Ethylbenzene	<0.00061		0.0050	0.00061	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Ethylene Dibromide	<0.00048		0.0050	0.00048	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Hexachlorobutadiene	<0.0011		0.0050	0.0011	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
2-Hexanone	<0.0050		0.025	0.0050	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Cumene	<0.00068		0.0050	0.00068	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Iodomethane	<0.0034		0.0050	0.0034	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Isopropyl ether	<0.00055		0.0050	0.00055	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Methylene Chloride	<0.0034		0.0050	0.0034	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
methyl isobutyl ketone	<0.0040		0.025	0.0040	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Methyl tert-butyl ether	<0.0010		0.0050	0.0010	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
Naphthalene	<0.0010		0.0050	0.0010	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
n-Butylbenzene	<0.00096		0.0050	0.00096	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
n-Propylbenzene	<0.00090		0.0050	0.00090	mg/Kg	05/22/12 13:00	05/25/12 17:07		1
sec-Butylbenzene	<0.00095		0.0050	0.00095	mg/Kg	05/22/12 13:00	05/25/12 17:07		1

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - BTEX+MTBE (Continued)

Lab Sample ID: MB 400-155536/1-A

Matrix: Solid

Analysis Batch: 155550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155536

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.00076				0.0050	0.00076	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
t-Butylbenzene	<0.00079				0.0050	0.00079	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
1,1,1,2-Tetrachloroethane	<0.0010				0.0050	0.0010	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
1,1,2,2-Tetrachloroethane	<0.00072				0.0050	0.00072	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
Tetrachloroethene	<0.00084				0.0050	0.00084	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
Toluene	<0.00068				0.0050	0.00068	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
1,2,3-Trichlorobenzene	<0.0012				0.0050	0.0012	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
1,2,4-Trichlorobenzene	<0.00073				0.0050	0.00073	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
1,1,1-Trichloroethane	<0.0011				0.0050	0.0011	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
1,1,2-Trichloroethane	<0.00092				0.0050	0.00092	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
Trichloroethene	<0.00048				0.0050	0.00048	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
Trichlorofluoromethane	<0.00095				0.0050	0.00095	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
1,2,3-Trichloropropane	<0.0017				0.0050	0.0017	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
1,2,4-Trimethylbenzene	<0.00073				0.0050	0.00073	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
1,3,5-Trimethylbenzene	<0.00083				0.0050	0.00083	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
Vinyl acetate	<0.0091				0.025	0.0091	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
Vinyl chloride	<0.00092				0.0050	0.00092	mg/Kg		05/22/12 13:00	05/25/12 17:07	1
Xylenes, Total	<0.0019				0.010	0.0019	mg/Kg		05/22/12 13:00	05/25/12 17:07	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	95		95		70 - 141		05/22/12 13:00	05/25/12 17:07	1
Dibromofluoromethane	100		100		71 - 121		05/22/12 13:00	05/25/12 17:07	1
Toluene-d8 (Surr)	101		101		81 - 116		05/22/12 13:00	05/25/12 17:07	1

Lab Sample ID: LCS 400-155536/2-A

Matrix: Solid

Analysis Batch: 155550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155536

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Benzene	0.0500	0.0495		mg/Kg		99	76 - 120
Bromobenzene	0.0500	0.0491		mg/Kg		98	79 - 128
Bromoform	0.0500	0.0462		mg/Kg		92	77 - 116
Bromochloromethane	0.0500	0.0485		mg/Kg		97	81 - 120
Bromomethane	0.0500	0.0523		mg/Kg		105	69 - 128
Chlorobenzene	0.0500	0.0516		mg/Kg		103	10 - 150
Chloroform	0.0500	0.0489		mg/Kg		98	81 - 123
Chloroethane	0.0500	0.0494		mg/Kg		99	84 - 119
Chloromethane	0.0500	0.0461		mg/Kg		92	47 - 147
2-Chlorotoluene	0.0500	0.0475		mg/Kg		95	74 - 119
4-Chlorotoluene	0.0500	0.0439		mg/Kg		88	51 - 137
Cymene, p-	0.0500	0.0480		mg/Kg		96	77 - 121
Dibromochloromethane	0.0500	0.0530		mg/Kg		106	69 - 132
Dibromomethane	0.0500	0.0499		mg/Kg		100	67 - 135
1,2-Dichlorobenzene	0.0500	0.0495		mg/Kg		99	73 - 125
1,3-Dichlorobenzene	0.0500	0.0483		mg/Kg		97	83 - 118
1,4-Dichlorobenzene	0.0500	0.0492		mg/Kg		98	79 - 121
Dichlorodifluoromethane	0.0500	0.0477		mg/Kg		95	75 - 125
	0.0500	0.0518		mg/Kg		104	79 - 121
	0.0500	0.0460		mg/Kg		92	53 - 150

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - BTEX+MTBE (Continued)

Lab Sample ID: LCS 400-155536/2-A

Matrix: Solid

Analysis Batch: 155550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155536

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier					
1,1-Dichloroethane	0.0500	0.0481		mg/Kg		96	45 - 135	
1,2-Dichloroethane	0.0500	0.0501		mg/Kg		100	79 - 129	
1,1-Dichloroethene	0.0500	0.0497		mg/Kg		99	59 - 134	
1,2-Dichloroethene, cis-	0.0500	0.0495		mg/Kg		99	75 - 120	
1,2-Dichloroethene, trans-	0.0500	0.0556		mg/Kg		111	67 - 120	
1,2-Dichloropropane	0.0500	0.0494		mg/Kg		99	78 - 117	
1,3-Dichloropropane	0.0500	0.0496		mg/Kg		99	81 - 115	
2,2-Dichloropropane	0.0500	0.0485		mg/Kg		97	71 - 120	
1,3-Dichloropropene, cis-	0.0500	0.0505		mg/Kg		101	80 - 118	
1,3-Dichloropropene, trans-	0.0500	0.0493		mg/Kg		99	80 - 118	
Ethylbenzene	0.0500	0.0486		mg/Kg		97	80 - 123	
Ethylene Dibromide	0.0500	0.0499		mg/Kg		100	81 - 116	
Hexachlorobutadiene	0.0500	0.0494		mg/Kg		99	64 - 150	
Cumene	0.0500	0.0499		mg/Kg		100	77 - 129	
Methylene Chloride	0.0500	0.0533		mg/Kg		107	40 - 150	
Methyl tert-butyl ether	0.0500	0.0512		mg/Kg		102	62 - 118	
Naphthalene	0.0500	0.0471		mg/Kg		94	59 - 125	
n-Butylbenzene	0.0500	0.0498		mg/Kg		100	63 - 136	
n-Propylbenzene	0.0500	0.0485		mg/Kg		97	67 - 130	
sec-Butylbenzene	0.0500	0.0490		mg/Kg		98	67 - 131	
Styrene	0.0500	0.0531		mg/Kg		106	77 - 130	
t-Butylbenzene	0.0500	0.0490		mg/Kg		98	70 - 128	
1,1,1,2-Tetrachloroethane	0.0500	0.0477		mg/Kg		95	82 - 120	
1,1,2,2-Tetrachloroethane	0.0500	0.0517		mg/Kg		103	63 - 120	
Tetrachloroethene	0.0500	0.0497		mg/Kg		99	77 - 139	
Toluene	0.0500	0.0488		mg/Kg		98	77 - 123	
1,2,3-Trichlorobenzene	0.0500	0.0496		mg/Kg		99	78 - 129	
1,2,4-Trichlorobenzene	0.0500	0.0521		mg/Kg		104	76 - 132	
1,1,1-Trichloroethane	0.0500	0.0479		mg/Kg		96	69 - 121	
1,1,2-Trichloroethane	0.0500	0.0511		mg/Kg		102	80 - 113	
Trichloroethene	0.0500	0.0499		mg/Kg		100	57 - 130	
Trichlorofluoromethane	0.0500	0.0562		mg/Kg		112	83 - 122	
1,2,3-Trichloropropane	0.0500	0.0477		mg/Kg		95	63 - 128	
1,2,4-Trimethylbenzene	0.0500	0.0491		mg/Kg		98	69 - 129	
1,3,5-Trimethylbenzene	0.0500	0.0495		mg/Kg		99	69 - 128	
Vinyl chloride	0.0500	0.0444		mg/Kg		89	59 - 134	
Xylenes, Total	0.150	0.175		mg/Kg		117	79 - 128	

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	98		70 - 141
Dibromofluoromethane	99		71 - 121
Toluene-d8 (Surr)	100		81 - 116

Lab Sample ID: LCSD 400-155536/3-A

Matrix: Solid

Analysis Batch: 155550

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 155536

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	%Rec.	RPD
	Added	Result	Qualifier					RPD	Limit
Acetone	0.200	0.227		mg/Kg		114	53 - 125	11	19

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - BTEX+MTBE (Continued)

Lab Sample ID: LCSD 400-155536/3-A

Matrix: Solid

Analysis Batch: 155550

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 155536

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added	Result	Qualifier							
Benzene	0.0500	0.0506		mg/Kg	101	76 - 120	2	10		
Bromobenzene	0.0500	0.0504		mg/Kg	101	79 - 128	3	8		
Bromochloromethane	0.0500	0.0500		mg/Kg	100	77 - 116	8	11		
Bromodichloromethane	0.0500	0.0502		mg/Kg	100	81 - 120	3	9		
Bromoform	0.0500	0.0536		mg/Kg	107	69 - 128	2	13		
Bromomethane	0.0500	0.0540		mg/Kg	108	10 - 150	5	27		
Methyl Ethyl Ketone	0.200	0.215		mg/Kg	108	58 - 118	2	18		
Carbon disulfide	0.0500	0.0455		mg/Kg	91	45 - 141	5	15		
Carbon tetrachloride	0.0500	0.0503		mg/Kg	101	81 - 123	3	12		
Chlorobenzene	0.0500	0.0518		mg/Kg	104	84 - 119	5	12		
Chloroethane	0.0500	0.0426		mg/Kg	85	47 - 147	8	24		
Chloroform	0.0500	0.0490		mg/Kg	98	74 - 119	3	10		
Chloromethane	0.0500	0.0456		mg/Kg	91	51 - 137	4	17		
2-Chlorotoluene	0.0500	0.0498		mg/Kg	100	77 - 121	4	13		
4-Chlorotoluene	0.0500	0.0545		mg/Kg	109	69 - 132	3	13		
Cymene, p-	0.0500	0.0519		mg/Kg	104	67 - 135	4	16		
Dibromochloromethane	0.0500	0.0503		mg/Kg	101	73 - 125	2	11		
1,2-Dibromo-3-Chloropropane	0.0500	0.0511		mg/Kg	102	60 - 120	7	21		
Dibromomethane	0.0500	0.0494		mg/Kg	99	83 - 118	2	12		
1,2-Dichlorobenzene	0.0500	0.0504		mg/Kg	101	79 - 121	2	12		
1,3-Dichlorobenzene	0.0500	0.0496		mg/Kg	99	75 - 125	4	13		
1,4-Dichlorobenzene	0.0500	0.0534		mg/Kg	107	79 - 121	3	14		
Dichlorodifluoromethane	0.0500	0.0466		mg/Kg	93	53 - 150	1	13		
1,1-Dichloroethane	0.0500	0.0496		mg/Kg	99	45 - 135	3	32		
1,2-Dichloroethane	0.0500	0.0510		mg/Kg	102	79 - 129	2	12		
1,1-Dichloroethene	0.0500	0.0522		mg/Kg	104	59 - 134	5	15		
1,2-Dichloroethene, cis-	0.0500	0.0506		mg/Kg	101	75 - 120	2	11		
1,2-Dichloroethene, trans-	0.0500	0.0566		mg/Kg	113	67 - 120	2	12		
1,2-Dichloropropane	0.0500	0.0502		mg/Kg	100	78 - 117	2	9		
1,3-Dichloropropane	0.0500	0.0508		mg/Kg	102	81 - 115	2	10		
2,2-Dichloropropane	0.0500	0.0494		mg/Kg	99	71 - 120	2	9		
1,1-Dichloropropene	0.0500	0.0540		mg/Kg	108	80 - 122	5	12		
1,3-Dichloropropene, cis-	0.0500	0.0520		mg/Kg	104	80 - 118	3	9		
1,3-Dichloropropene, trans-	0.0500	0.0513		mg/Kg	103	80 - 118	4	10		
Ethylbenzene	0.0500	0.0513		mg/Kg	103	80 - 123	5	12		
Ethylene Dibromide	0.0500	0.0512		mg/Kg	102	81 - 116	3	12		
Hexachlorobutadiene	0.0500	0.0505		mg/Kg	101	64 - 150	2	25		
2-Hexanone	0.200	0.208		mg/Kg	104	67 - 117	3	18		
Cumene	0.0500	0.0519		mg/Kg	104	77 - 129	4	14		
Iodomethane	0.0500	0.0540		mg/Kg	108	37 - 150	1	22		
Isopropyl ether	0.0500	0.0547		mg/Kg	109	43 - 130	3	34		
Methylene Chloride	0.0500	0.0520		mg/Kg	104	40 - 150	2	22		
methyl isobutyl ketone	0.200	0.209		mg/Kg	105	67 - 117	4	17		
Methyl tert-butyl ether	0.0500	0.0516		mg/Kg	103	62 - 118	1	13		
Naphthalene	0.0500	0.0485		mg/Kg	97	59 - 125	3	16		
n-Butylbenzene	0.0500	0.0512		mg/Kg	102	63 - 136	3	20		
n-Propylbenzene	0.0500	0.0500		mg/Kg	100	67 - 130	3	14		
sec-Butylbenzene	0.0500	0.0506		mg/Kg	101	67 - 131	3	15		
Styrene	0.0500	0.0552		mg/Kg	110	77 - 130	4	12		
t-Butylbenzene	0.0500	0.0509		mg/Kg	102	70 - 128	4	11		

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - BTEX+MTBE (Continued)

Lab Sample ID: LCSD 400-155536/3-A

Matrix: Solid

Analysis Batch: 155550

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 155536

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added	Result	Qualifier							
1,1,1,2-Tetrachloroethane	0.0500	0.0508		mg/Kg	102	82 - 120	6	9		
1,1,2,2-Tetrachloroethane	0.0500	0.0545		mg/Kg	109	63 - 120	5	11		
Tetrachloroethene	0.0500	0.0513		mg/Kg	103	77 - 139	3	14		
Toluene	0.0500	0.0500		mg/Kg	100	77 - 123	2	11		
1,2,3-Trichlorobenzene	0.0500	0.0511		mg/Kg	102	78 - 129	3	16		
1,2,4-Trichlorobenzene	0.0500	0.0533		mg/Kg	107	76 - 132	2	17		
1,1,1-Trichloroethane	0.0500	0.0491		mg/Kg	98	69 - 121	2	11		
1,1,2-Trichloroethane	0.0500	0.0524		mg/Kg	105	80 - 113	3	10		
Trichloroethene	0.0500	0.0506		mg/Kg	101	57 - 130	1	15		
Trichlorofluoromethane	0.0500	0.0591		mg/Kg	118	83 - 122	5	11		
1,2,3-Trichloropropane	0.0500	0.0558		mg/Kg	112	63 - 128	16	32		
1,2,4-Trimethylbenzene	0.0500	0.0505		mg/Kg	101	69 - 129	3	13		
1,3,5-Trimethylbenzene	0.0500	0.0516		mg/Kg	103	69 - 128	4	11		
Vinyl acetate	0.100	0.106		mg/Kg	106	41 - 135	6	46		
Vinyl chloride	0.0500	0.0461		mg/Kg	92	59 - 134	4	15		
Xylenes, Total	0.150	0.178		mg/Kg	119	79 - 128	2	12		

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	97		70 - 141
Dibromofluoromethane	98		71 - 121
Toluene-d8 (Surr)	100		81 - 116

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-155246/7

Matrix: Water

Analysis Batch: 155246

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0035		0.025	0.0035	mg/L			05/23/12 10:05	1
Benzene	<0.00034		0.0010	0.00034	mg/L			05/23/12 10:05	1
Bromobenzene	<0.00054		0.0010	0.00054	mg/L			05/23/12 10:05	1
Bromochloromethane	<0.00052		0.0010	0.00052	mg/L			05/23/12 10:05	1
Bromodichloromethane	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
Bromoform	<0.00071		0.0050	0.00071	mg/L			05/23/12 10:05	1
Bromomethane	<0.00098		0.0010	0.00098	mg/L			05/23/12 10:05	1
Methyl Ethyl Ketone	<0.0026		0.025	0.0026	mg/L			05/23/12 10:05	1
Carbon disulfide	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
Chloroethane	<0.00076		0.0010	0.00076	mg/L			05/23/12 10:05	1
Chloroform	<0.00060		0.0010	0.00060	mg/L			05/23/12 10:05	1
Chloromethane	<0.00083		0.0010	0.00083	mg/L			05/23/12 10:05	1
2-Chlorotoluene	<0.00057		0.0010	0.00057	mg/L			05/23/12 10:05	1
4-Chlorotoluene	<0.00056		0.0010	0.00056	mg/L			05/23/12 10:05	1
Cymene, p-	<0.00071		0.0010	0.00071	mg/L			05/23/12 10:05	1
Dibromochloromethane	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
1,2-Dibromo-3-Chloropropane	<0.00078		0.0050	0.00078	mg/L			05/23/12 10:05	1
Dibromomethane	<0.00059		0.0050	0.00059	mg/L			05/23/12 10:05	1

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-155246/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 155246

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
1,3-Dichlorobenzene	<0.00054		0.0010	0.00054	mg/L			05/23/12 10:05	1
1,4-Dichlorobenzene	<0.00064		0.0010	0.00064	mg/L			05/23/12 10:05	1
Dichlorodifluoromethane	<0.00085		0.0010	0.00085	mg/L			05/23/12 10:05	1
1,1-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
1,2-Dichloroethene, cis-	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
1,2-Dichloroethene, trans-	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
1,2-Dichloropropane	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
1,3-Dichloropropane	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
2,2-Dichloropropane	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
1,1-Dichloropropene	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
1,3-Dichloropropene, cis-	<0.00050		0.0050	0.00050	mg/L			05/23/12 10:05	1
1,3-Dichloropropene, trans-	<0.00050		0.0050	0.00050	mg/L			05/23/12 10:05	1
Ethylbenzene	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
Ethylene Dibromide	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
Hexachlorobutadiene	<0.00090		0.0050	0.00090	mg/L			05/23/12 10:05	1
2-Hexanone	<0.0031		0.025	0.0031	mg/L			05/23/12 10:05	1
Cumene	<0.00053		0.0010	0.00053	mg/L			05/23/12 10:05	1
Iodomethane	<0.00061		0.0010	0.00061	mg/L			05/23/12 10:05	1
Isopropyl ether	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
Methylene Chloride	0.00174		0.0010	0.0010	mg/L			05/23/12 10:05	1
methyl isobutyl ketone	<0.0018		0.025	0.0018	mg/L			05/23/12 10:05	1
Methyl tert-butyl ether	<0.00074		0.0010	0.00074	mg/L			05/23/12 10:05	1
Naphthalene	<0.0010		0.0010	0.0010	mg/L			05/23/12 10:05	1
n-Butylbenzene	<0.00076		0.0010	0.00076	mg/L			05/23/12 10:05	1
n-Propylbenzene	<0.00069		0.0010	0.00069	mg/L			05/23/12 10:05	1
sec-Butylbenzene	<0.00070		0.0010	0.00070	mg/L			05/23/12 10:05	1
Styrene	<0.0010		0.0010	0.0010	mg/L			05/23/12 10:05	1
t-Butylbenzene	<0.00063		0.0010	0.00063	mg/L			05/23/12 10:05	1
1,1,1,2-Tetrachloroethane	<0.00052		0.0010	0.00052	mg/L			05/23/12 10:05	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
Tetrachloroethene	<0.00058		0.0010	0.00058	mg/L			05/23/12 10:05	1
Toluene	<0.00070		0.0010	0.00070	mg/L			05/23/12 10:05	1
1,2,3-Trichlorobenzene	<0.00070		0.0010	0.00070	mg/L			05/23/12 10:05	1
1,2,4-Trichlorobenzene	<0.00082		0.0010	0.00082	mg/L			05/23/12 10:05	1
1,1,1-Trichloroethane	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
1,1,2-Trichloroethane	<0.00050		0.0050	0.00050	mg/L			05/23/12 10:05	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
Trichlorofluoromethane	<0.00052		0.0010	0.00052	mg/L			05/23/12 10:05	1
1,2,3-Trichloropropane	<0.00086		0.0050	0.00086	mg/L			05/23/12 10:05	1
1,2,4-Trimethylbenzene	<0.00082		0.0010	0.00082	mg/L			05/23/12 10:05	1
1,3,5-Trimethylbenzene	<0.00056		0.0010	0.00056	mg/L			05/23/12 10:05	1
Vinyl acetate	<0.0020		0.025	0.0020	mg/L			05/23/12 10:05	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			05/23/12 10:05	1
Xylenes, Total	<0.0016		0.010	0.0016	mg/L			05/23/12 10:05	1

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-155246/7

Matrix: Water

Analysis Batch: 155246

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB	MB	%Recovery	Qualifier	Limits
4-Bromofluorobenzene		105			79 - 118
Dibromofluoromethane		103			79 - 119
Toluene-d8 (Surr)		109			80 - 120

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Lab Sample ID: LCS 400-155246/9

Matrix: Water

Analysis Batch: 155246

Analyte	Spikes	LCS	LCS	%Rec.			
	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acetone	0.200	0.208		mg/L	104	12 - 150	
Benzene	0.0500	0.0534		mg/L	107	75 - 122	
Bromobenzene	0.0500	0.0483		mg/L	97	74 - 124	
Bromochloromethane	0.0500	0.0509		mg/L	102	75 - 119	
Bromodichloromethane	0.0500	0.0554		mg/L	111	71 - 128	
Bromoform	0.0500	0.0528		mg/L	106	49 - 126	
Bromomethane	0.0500	0.0573		mg/L	115	10 - 150	
Methyl Ethyl Ketone	0.200	0.235		mg/L	118	60 - 130	
Carbon disulfide	0.0500	0.0529		mg/L	106	21 - 146	
Carbon tetrachloride	0.0500	0.0515		mg/L	103	66 - 129	
Chlorobenzene	0.0500	0.0502		mg/L	100	77 - 119	
Chloroethane	0.0500	0.0543		mg/L	109	10 - 150	
Chloroform	0.0500	0.0574		mg/L	115	70 - 131	
Chloromethane	0.0500	0.0411		mg/L	82	35 - 150	
2-Chlorotoluene	0.0500	0.0528		mg/L	106	63 - 150	
4-Chlorotoluene	0.0500	0.0543		mg/L	109	61 - 150	
Cymene, p-	0.0500	0.0537		mg/L	107	67 - 138	
Dibromochloromethane	0.0500	0.0525		mg/L	105	63 - 128	
1,2-Dibromo-3-Chloropropane	0.0500	0.0520		mg/L	104	42 - 120	
Dibromomethane	0.0500	0.0485		mg/L	97	77 - 121	
1,2-Dichlorobenzene	0.0500	0.0477		mg/L	95	78 - 124	
1,3-Dichlorobenzene	0.0500	0.0536		mg/L	107	75 - 125	
1,4-Dichlorobenzene	0.0500	0.0507		mg/L	101	78 - 123	
Dichlorodifluoromethane	0.0500	0.0547		mg/L	109	20 - 150	
1,1-Dichloroethane	0.0500	0.0518		mg/L	104	55 - 150	
1,2-Dichloroethane	0.0500	0.0498		mg/L	100	71 - 147	
1,1-Dichloroethene	0.0500	0.0560		mg/L	112	28 - 150	
1,2-Dichloroethene, cis-	0.0500	0.0514		mg/L	103	66 - 146	
1,2-Dichloroethene, trans-	0.0500	0.0533		mg/L	107	64 - 128	
1,2-Dichloropropane	0.0500	0.0489		mg/L	98	76 - 133	
1,3-Dichloropropane	0.0500	0.0553		mg/L	111	79 - 122	
2,2-Dichloropropane	0.0500	0.0593		mg/L	119	68 - 125	
1,1-Dichloropropene	0.0500	0.0550		mg/L	110	70 - 127	
1,3-Dichloropropene, cis-	0.0500	0.0564		mg/L	113	75 - 121	
1,3-Dichloropropene, trans-	0.0500	0.0582		mg/L	116	63 - 129	
Ethylbenzene	0.0500	0.0540		mg/L	108	77 - 126	
Ethylene Dibromide	0.0500	0.0519		mg/L	104	69 - 126	
Hexachlorobutadiene	0.0500	0.0491		mg/L	98	59 - 150	
2-Hexanone	0.200	0.196		mg/L	98	63 - 142	
Cumene	0.0500	0.0539		mg/L	108	77 - 124	

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-155246/9

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 155246

Analyte	Spike	LCS			Unit	D	%Rec	Limits	5
	Added	Result	Qualifier						
Iodomethane	0.0500	0.0551		mg/L		110	38 - 150		6
Isopropyl ether	0.0500	0.0499		mg/L		100	52 - 150		7
Methylene Chloride	0.0500	0.0587		mg/L		117	62 - 131		8
methyl isobutyl ketone	0.200	0.195		mg/L		97	64 - 142		9
Methyl tert-butyl ether	0.0500	0.0574		mg/L		115	69 - 123		10
m-Xylene & p-Xylene	0.100	0.109		mg/L		109	77 - 127		11
Naphthalene	0.0500	0.0487		mg/L		97	28 - 141		12
n-Butylbenzene	0.0500	0.0527		mg/L		105	63 - 144		13
n-Propylbenzene	0.0500	0.0542		mg/L		108	62 - 145		14
o-Xylene	0.0500	0.0501		mg/L		100	80 - 123		15
sec-Butylbenzene	0.0500	0.0559		mg/L		112	64 - 140		
Styrene	0.0500	0.0507		mg/L		101	78 - 121		
t-Butylbenzene	0.0500	0.0473		mg/L		95	58 - 150		
1,1,1,2-Tetrachloroethane	0.0500	0.0520		mg/L		104	74 - 123		
1,1,2,2-Tetrachloroethane	0.0500	0.0551		mg/L		110	56 - 145		
Tetrachloroethene	0.0500	0.0498		mg/L		100	67 - 133		
Toluene	0.0500	0.0497		mg/L		99	76 - 120		
1,2,3-Trichlorobenzene	0.0500	0.0495		mg/L		99	39 - 150		
1,2,4-Trichlorobenzene	0.0500	0.0493		mg/L		99	51 - 142		
1,1,1-Trichloroethane	0.0500	0.0554		mg/L		111	65 - 133		
1,1,2-Trichloroethane	0.0500	0.0559		mg/L		112	78 - 121		
Trichloroethene	0.0500	0.0485		mg/L		97	68 - 125		
Trichlorofluoromethane	0.0500	0.0570		mg/L		114	37 - 150		
1,2,3-Trichloropropane	0.0500	0.0513		mg/L		103	60 - 142		
1,2,4-Trimethylbenzene	0.0500	0.0503		mg/L		101	68 - 136		
1,3,5-Trimethylbenzene	0.0500	0.0506		mg/L		101	62 - 146		
Vinyl acetate	0.100	0.125		mg/L		125	55 - 134		
Vinyl chloride	0.0500	0.0472		mg/L		94	28 - 150		
Xylenes, Total	0.150	0.159		mg/L		106	78 - 125		

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	100		79 - 118
Dibromofluoromethane	104		79 - 119
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: MB 400-155427/4

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 155427

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0035		0.025	0.0035	mg/L			05/24/12 10:31	1
Benzene	<0.00034		0.0010	0.00034	mg/L			05/24/12 10:31	1
Bromobenzene	<0.00054		0.0010	0.00054	mg/L			05/24/12 10:31	1
Bromochloromethane	<0.00052		0.0010	0.00052	mg/L			05/24/12 10:31	1
Bromodichloromethane	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
Bromoform	<0.00071		0.0050	0.00071	mg/L			05/24/12 10:31	1
Bromomethane	<0.00098		0.0010	0.00098	mg/L			05/24/12 10:31	1
Methyl Ethyl Ketone	<0.0026		0.025	0.0026	mg/L			05/24/12 10:31	1
Carbon disulfide	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-155427/4

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 155427

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
Chloroethane	<0.00076		0.0010	0.00076	mg/L			05/24/12 10:31	1
Chloroform	<0.00060		0.0010	0.00060	mg/L			05/24/12 10:31	1
Chloromethane	<0.00083		0.0010	0.00083	mg/L			05/24/12 10:31	1
2-Chlorotoluene	<0.00057		0.0010	0.00057	mg/L			05/24/12 10:31	1
4-Chlorotoluene	<0.00056		0.0010	0.00056	mg/L			05/24/12 10:31	1
Cymene, p-	<0.00071		0.0010	0.00071	mg/L			05/24/12 10:31	1
Dibromochloromethane	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
1,2-Dibromo-3-Chloropropane	<0.00078		0.0050	0.00078	mg/L			05/24/12 10:31	1
Dibromomethane	<0.00059		0.0050	0.00059	mg/L			05/24/12 10:31	1
1,2-Dichlorobenzene	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
1,3-Dichlorobenzene	<0.00054		0.0010	0.00054	mg/L			05/24/12 10:31	1
1,4-Dichlorobenzene	<0.00064		0.0010	0.00064	mg/L			05/24/12 10:31	1
Dichlorodifluoromethane	<0.00085		0.0010	0.00085	mg/L			05/24/12 10:31	1
1,1-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
1,2-Dichloroethene, cis-	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
1,2-Dichloroethene, trans-	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
1,2-Dichloropropane	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
1,3-Dichloropropane	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
2,2-Dichloropropane	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
1,1-Dichloropropene	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
1,3-Dichloropropene, cis-	<0.00050		0.0050	0.00050	mg/L			05/24/12 10:31	1
1,3-Dichloropropene, trans-	<0.00050		0.0050	0.00050	mg/L			05/24/12 10:31	1
Ethylbenzene	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
Ethylene Dibromide	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
Hexachlorobutadiene	<0.00090		0.0050	0.00090	mg/L			05/24/12 10:31	1
2-Hexanone	<0.0031		0.025	0.0031	mg/L			05/24/12 10:31	1
Cumene	<0.00053		0.0010	0.00053	mg/L			05/24/12 10:31	1
Iodomethane	<0.00061		0.0010	0.00061	mg/L			05/24/12 10:31	1
Isopropyl ether	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
Methylene Chloride	<0.0010		0.0010	0.0010	mg/L			05/24/12 10:31	1
methyl isobutyl ketone	<0.0018		0.025	0.0018	mg/L			05/24/12 10:31	1
Methyl tert-butyl ether	<0.00074		0.0010	0.00074	mg/L			05/24/12 10:31	1
Naphthalene	<0.0010		0.0010	0.0010	mg/L			05/24/12 10:31	1
n-Butylbenzene	<0.00076		0.0010	0.00076	mg/L			05/24/12 10:31	1
n-Propylbenzene	<0.00069		0.0010	0.00069	mg/L			05/24/12 10:31	1
sec-Butylbenzene	<0.00070		0.0010	0.00070	mg/L			05/24/12 10:31	1
Styrene	<0.0010		0.0010	0.0010	mg/L			05/24/12 10:31	1
t-Butylbenzene	<0.00063		0.0010	0.00063	mg/L			05/24/12 10:31	1
1,1,1,2-Tetrachloroethane	<0.00052		0.0010	0.00052	mg/L			05/24/12 10:31	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
Tetrachloroethene	<0.00058		0.0010	0.00058	mg/L			05/24/12 10:31	1
Toluene	<0.00070		0.0010	0.00070	mg/L			05/24/12 10:31	1
1,2,3-Trichlorobenzene	<0.00070		0.0010	0.00070	mg/L			05/24/12 10:31	1
1,2,4-Trichlorobenzene	<0.00082		0.0010	0.00082	mg/L			05/24/12 10:31	1
1,1,1-Trichloroethane	<0.00050		0.0010	0.00050	mg/L			05/24/12 10:31	1
1,1,2-Trichloroethane	<0.00050		0.0050	0.00050	mg/L			05/24/12 10:31	1

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-155427/4

Matrix: Water

Analysis Batch: 155427

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.00050		0.0010		0.00050	mg/L				05/24/12 10:31	1
Trichlorofluoromethane	<0.00052		0.0010		0.00052	mg/L				05/24/12 10:31	1
1,2,3-Trichloropropane	<0.00086		0.0050		0.00086	mg/L				05/24/12 10:31	1
1,2,4-Trimethylbenzene	<0.00082		0.0010		0.00082	mg/L				05/24/12 10:31	1
1,3,5-Trimethylbenzene	<0.00056		0.0010		0.00056	mg/L				05/24/12 10:31	1
Vinyl acetate	<0.0020		0.025		0.0020	mg/L				05/24/12 10:31	1
Vinyl chloride	<0.00050		0.0010		0.00050	mg/L				05/24/12 10:31	1
Xylenes, Total	<0.0016		0.010		0.0016	mg/L				05/24/12 10:31	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	106		79 - 118				05/24/12 10:31	1
Dibromofluoromethane	98		79 - 119				05/24/12 10:31	1
Toluene-d8 (Surr)	99		80 - 120				05/24/12 10:31	1

Lab Sample ID: LCS 400-155427/5

Matrix: Water

Analysis Batch: 155427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LC S	LCS	Result	Qualifier	Unit	D	%Rec	Limits	%Rec.
		Added								
Acetone		0.200		0.209		mg/L		104	12 - 150	
Benzene		0.0500		0.0479		mg/L		96	75 - 122	
Bromobenzene		0.0500		0.0495		mg/L		99	74 - 124	
Bromochloromethane		0.0500		0.0521		mg/L		104	75 - 119	
Bromodichloromethane		0.0500		0.0511		mg/L		102	71 - 128	
Bromoform		0.0500		0.0422		mg/L		84	49 - 126	
Bromomethane		0.0500		0.0435		mg/L		87	10 - 150	
Methyl Ethyl Ketone		0.200		0.205		mg/L		102	60 - 130	
Carbon disulfide		0.0500		0.0368		mg/L		74	21 - 146	
Carbon tetrachloride		0.0500		0.0476		mg/L		95	66 - 129	
Chlorobenzene		0.0500		0.0515		mg/L		103	77 - 119	
Chloroethane		0.0500		0.0464		mg/L		93	10 - 150	
Chloroform		0.0500		0.0520		mg/L		104	70 - 131	
Chloromethane		0.0500		0.0442		mg/L		88	35 - 150	
2-Chlorotoluene		0.0500		0.0502		mg/L		100	63 - 150	
4-Chlorotoluene		0.0500		0.0509		mg/L		102	61 - 150	
Cymene, p-		0.0500		0.0539		mg/L		108	67 - 138	
Dibromochloromethane		0.0500		0.0449		mg/L		90	63 - 128	
1,2-Dibromo-3-Chloropropane		0.0500		0.0444		mg/L		89	42 - 120	
Dibromomethane		0.0500		0.0470		mg/L		94	77 - 121	
1,2-Dichlorobenzene		0.0500		0.0495		mg/L		99	78 - 124	
1,3-Dichlorobenzene		0.0500		0.0504		mg/L		101	75 - 125	
1,4-Dichlorobenzene		0.0500		0.0497		mg/L		99	78 - 123	
Dichlorodifluoromethane		0.0500		0.0415		mg/L		83	20 - 150	
1,1-Dichloroethane		0.0500		0.0477		mg/L		95	55 - 150	
1,2-Dichloroethane		0.0500		0.0457		mg/L		91	71 - 147	
1,1-Dichloroethene		0.0500		0.0461		mg/L		92	28 - 150	
1,2-Dichloroethene, cis-		0.0500		0.0489		mg/L		98	66 - 146	
1,2-Dichloroethene, trans-		0.0500		0.0474		mg/L		95	64 - 128	
1,2-Dichloropropene		0.0500		0.0489		mg/L		98	76 - 133	

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-155427/5

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 155427

Analyte	Spike		LCS		Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier						
1,3-Dichloropropane	0.0500	0.0484		mg/L		97	79 - 122		
2,2-Dichloropropane	0.0500	0.0504		mg/L		101	68 - 125		
1,1-Dichloropropene	0.0500	0.0458		mg/L		92	70 - 127		
1,3-Dichloropropene, cis-	0.0500	0.0453		mg/L		91	75 - 121		
1,3-Dichloropropene, trans-	0.0500	0.0437		mg/L		87	63 - 129		
Ethylbenzene	0.0500	0.0504		mg/L		101	77 - 126		
Ethylene Dibromide	0.0500	0.0507		mg/L		101	69 - 126		
Hexachlorobutadiene	0.0500	0.0515		mg/L		103	59 - 150		
2-Hexanone	0.200	0.209		mg/L		104	63 - 142		
Cumene	0.0500	0.0506		mg/L		101	77 - 124		
Iodomethane	0.0500	0.0432		mg/L		86	38 - 150		
Isopropyl ether	0.0500	0.0530		mg/L		106	52 - 150		
Methylene Chloride	0.0500	0.0500		mg/L		100	62 - 131		
methyl isobutyl ketone	0.200	0.210		mg/L		105	64 - 142		
Methyl tert-butyl ether	0.0500	0.0481		mg/L		96	69 - 123		
m-Xylene & p-Xylene	0.100	0.100		mg/L		100	77 - 127		
Naphthalene	0.0500	0.0538		mg/L		108	28 - 141		
n-Butylbenzene	0.0500	0.0519		mg/L		104	63 - 144		
n-Propylbenzene	0.0500	0.0516		mg/L		103	62 - 145		
o-Xylene	0.0500	0.0501		mg/L		100	80 - 123		
sec-Butylbenzene	0.0500	0.0517		mg/L		103	64 - 140		
Styrene	0.0500	0.0509		mg/L		102	78 - 121		
t-Butylbenzene	0.0500	0.0528		mg/L		106	58 - 150		
1,1,1,2-Tetrachloroethane	0.0500	0.0536		mg/L		107	74 - 123		
1,1,2,2-Tetrachloroethane	0.0500	0.0530		mg/L		106	56 - 145		
Tetrachloroethene	0.0500	0.0471		mg/L		94	67 - 133		
Toluene	0.0500	0.0478		mg/L		96	76 - 120		
1,2,3-Trichlorobenzene	0.0500	0.0518		mg/L		104	39 - 150		
1,2,4-Trichlorobenzene	0.0500	0.0526		mg/L		105	51 - 142		
1,1,1-Trichloroethane	0.0500	0.0516		mg/L		103	65 - 133		
1,1,2-Trichloroethane	0.0500	0.0507		mg/L		101	78 - 121		
Trichloroethene	0.0500	0.0470		mg/L		94	68 - 125		
Trichlorofluoromethane	0.0500	0.0444		mg/L		89	37 - 150		
1,2,3-Trichloropropane	0.0500	0.0494		mg/L		99	60 - 142		
1,2,4-Trimethylbenzene	0.0500	0.0518		mg/L		104	68 - 136		
1,3,5-Trimethylbenzene	0.0500	0.0512		mg/L		102	62 - 146		
Vinyl acetate	0.100	0.102		mg/L		102	55 - 134		
Vinyl chloride	0.0500	0.0431		mg/L		86	28 - 150		
Xylenes, Total	0.150	0.150		mg/L		100	78 - 125		

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	104		79 - 118
Dibromofluoromethane	105		79 - 119
Toluene-d8 (Surr)	100		80 - 120

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-65436-B-26 MS

Matrix: Water

Analysis Batch: 155427

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Acetone			0.200	0.209		mg/L			
Benzene	<0.00034		0.0500	0.0487		mg/L	97	50 - 140	
Bromobenzene	<0.00054		0.0500	0.0490		mg/L	98	35 - 135	
Bromochloromethane	<0.00052		0.0500	0.0523		mg/L	105	69 - 125	
Bromodichloromethane	<0.00050		0.0500	0.0520		mg/L	104	65 - 127	
Bromoform	<0.00071		0.0500	0.0429		mg/L	86	44 - 126	
Bromomethane	<0.00098		0.0500	0.0492		mg/L	98	10 - 150	
Methyl Ethyl Ketone			0.200	0.212		mg/L			
Carbon disulfide			0.0500	0.0387		mg/L			
Carbon tetrachloride	<0.00050		0.0500	0.0476		mg/L	95	59 - 127	
Chlorobenzene	<0.00050		0.0500	0.0506		mg/L	101	44 - 129	
Chloroethane	<0.00076		0.0500	0.0471		mg/L	94	10 - 150	
Chloroform	<0.00060		0.0500	0.0523		mg/L	105	61 - 134	
Chloromethane	<0.00083		0.0500	0.0461		mg/L	92	10 - 150	
2-Chlorotoluene	<0.00057		0.0500	0.0497		mg/L	99	21 - 147	
4-Chlorotoluene	<0.00056		0.0500	0.0498		mg/L	100	20 - 143	
Cymene, p-	<0.00071		0.0500	0.0525		mg/L	105	10 - 148	
Dibromochloromethane	<0.00050		0.0500	0.0460		mg/L	92	58 - 128	
1,2-Dibromo-3-Chloropropane			0.0500	0.0474		mg/L			
Dibromomethane	<0.00059		0.0500	0.0491		mg/L	98	74 - 122	
1,2-Dichlorobenzene	<0.00050		0.0500	0.0488		mg/L	98	35 - 131	
1,3-Dichlorobenzene	<0.00054		0.0500	0.0495		mg/L	99	21 - 134	
1,4-Dichlorobenzene	<0.00064		0.0500	0.0486		mg/L	97	20 - 135	
Dichlorodifluoromethane	<0.00085		0.0500	0.0439		mg/L	88	11 - 150	
1,1-Dichloroethane	<0.00050		0.0500	0.0477		mg/L	95	43 - 150	
1,2-Dichloroethane	<0.00050		0.0500	0.0468		mg/L	94	64 - 150	
1,1-Dichloroethylene	<0.00050		0.0500	0.0458		mg/L	92	17 - 150	
1,2-Dichloroethylene, cis-	<0.00050		0.0500	0.0486		mg/L	97	55 - 148	
1,2-Dichloroethylene, trans-	<0.00050		0.0500	0.0473		mg/L	95	48 - 136	
1,2-Dichloropropane	<0.00050		0.0500	0.0493		mg/L	99	64 - 139	
1,3-Dichloropropane	<0.00050		0.0500	0.0498		mg/L	100	72 - 124	
2,2-Dichloropropane	<0.00050		0.0500	0.0493		mg/L	99	59 - 119	
1,1-Dichloropropene			0.0500	0.0466		mg/L			
1,3-Dichloropropene, cis-	<0.00050		0.0500	0.0449		mg/L	90	64 - 119	
1,3-Dichloropropene, trans-	<0.00050		0.0500	0.0434		mg/L	87	51 - 127	
Ethylbenzene	<0.00050		0.0500	0.0498		mg/L	100	33 - 138	
Ethylene Dibromide	<0.00050		0.0500	0.0518		mg/L	104	66 - 126	
Hexachlorobutadiene	<0.00090		0.0500	0.0497		mg/L	99	10 - 150	
2-Hexanone			0.200	0.222		mg/L			
Cumene	<0.00053		0.0500	0.0499		mg/L	100	10 - 149	
Iodomethane			0.0500	0.0417		mg/L			
Isopropyl ether			0.0500	0.0534		mg/L			
Methylene Chloride	0.0013	B	0.0500	0.0503		mg/L	98	50 - 138	
methyl isobutyl ketone			0.200	0.221		mg/L			
Methyl tert-butyl ether	<0.00074		0.0500	0.0487		mg/L	97	62 - 139	
m-Xylene & p-Xylene	<0.0016		0.100	0.0984		mg/L	98	28 - 140	
Naphthalene	<0.0010		0.0500	0.0552		mg/L	110	20 - 146	
n-Butylbenzene			0.0500	0.0498		mg/L			
n-Propylbenzene	<0.00069		0.0500	0.0504		mg/L	101	10 - 150	

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-65436-B-26 MS

Matrix: Water

Analysis Batch: 155427

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits									
	Result	Qualifier	Added	Result	Qualifier													
o-Xylene	<0.0016		0.0500	0.0497		mg/L		99	36 - 136									
sec-Butylbenzene	<0.00070		0.0500	0.0505		mg/L		101	10 - 147									
Styrene	<0.0010		0.0500	0.0505		mg/L		101	29 - 136									
t-Butylbenzene	<0.00063		0.0500	0.0524		mg/L		105	14 - 147									
1,1,1,2-Tetrachloroethane	<0.00052		0.0500	0.0536		mg/L		107	56 - 125									
1,1,2,2-Tetrachloroethane	<0.00050		0.0500	0.0548		mg/L		110	52 - 145									
Tetrachloroethene	<0.00058		0.0500	0.0465		mg/L		93	27 - 145									
Toluene	<0.00070		0.0500	0.0479		mg/L		96	48 - 131									
1,2,3-Trichlorobenzene	<0.00070		0.0500	0.0514		mg/L		103	11 - 150									
1,2,4-Trichlorobenzene	<0.00082		0.0500	0.0502		mg/L		100	10 - 148									
1,1,1-Trichloroethane	<0.00050		0.0500	0.0510		mg/L		102	58 - 135									
1,1,2-Trichloroethane	<0.00050		0.0500	0.0515		mg/L		103	71 - 123									
Trichloroethene	<0.00050		0.0500	0.0469		mg/L		94	49 - 127									
Trichlorofluoromethane	<0.00052		0.0500	0.0445		mg/L		89	14 - 150									
1,2,3-Trichloropropane	<0.00086		0.0500	0.0515		mg/L		103	57 - 145									
1,2,4-Trimethylbenzene	<0.00082		0.0500	0.0505		mg/L		101	13 - 140									
1,3,5-Trimethylbenzene	<0.00056		0.0500	0.0505		mg/L		101	10 - 150									
Vinyl acetate			0.100	0.102		mg/L												
Vinyl chloride	<0.00050		0.0500	0.0439		mg/L		88	10 - 150									
Xylenes, Total	<0.0016		0.150	0.148		mg/L		99	31 - 139									
<hr/>																		
Surrogate	MS		MS		Limits		D	%Rec.	Limits									
	%Recovery		Qualifier															
4-Bromofluorobenzene	104		79 - 118		79 - 119	80 - 120												
Dibromofluoromethane	105																	
Toluene-d8 (Surr)	101																	

Lab Sample ID: 400-65436-B-26 MSD

Matrix: Water

Analysis Batch: 155427

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Acetone			0.200	0.211		mg/L					
Benzene	<0.00034		0.0500	0.0475		mg/L		95	50 - 140	2	24
Bromobenzene	<0.00054		0.0500	0.0490		mg/L		98	35 - 135	0	43
Bromochloromethane	<0.00052		0.0500	0.0512		mg/L		102	69 - 125	2	21
Bromodichloromethane	<0.00050		0.0500	0.0506		mg/L		101	65 - 127	3	23
Bromoform	<0.00071		0.0500	0.0427		mg/L		85	44 - 126	0	25
Bromomethane	<0.00098		0.0500	0.0481		mg/L		96	10 - 150	2	42
Methyl Ethyl Ketone			0.200	0.214		mg/L					
Carbon disulfide			0.0500	0.0379		mg/L					
Carbon tetrachloride	<0.00050		0.0500	0.0464		mg/L		93	59 - 127	3	24
Chlorobenzene	<0.00050		0.0500	0.0507		mg/L		101	44 - 129	0	40
Chloroethane	<0.00076		0.0500	0.0466		mg/L		93	10 - 150	1	34
Chloroform	<0.00060		0.0500	0.0518		mg/L		104	61 - 134	1	23
Chloromethane	<0.00083		0.0500	0.0459		mg/L		92	10 - 150	0	24
2-Chlorotoluene	<0.00057		0.0500	0.0490		mg/L		98	21 - 147	1	61
4-Chlorotoluene	<0.00056		0.0500	0.0492		mg/L		98	20 - 143	1	63
Cymene, p-	<0.00071		0.0500	0.0521		mg/L		104	10 - 148	1	85
Dibromochloromethane	<0.00050		0.0500	0.0452		mg/L		90	58 - 128	2	25

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-65436-B-26 MSD

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 155427

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,2-Dibromo-3-Chloropropane			0.0500	0.0476		mg/L					
Dibromomethane	<0.00059		0.0500	0.0480		mg/L	96	74 - 122	2	21	
1,2-Dichlorobenzene	<0.00050		0.0500	0.0484		mg/L	97	35 - 131	1	49	
1,3-Dichlorobenzene	<0.00054		0.0500	0.0492		mg/L	98	21 - 134	1	58	
1,4-Dichlorobenzene	<0.00064		0.0500	0.0486		mg/L	97	20 - 135	0	58	
Dichlorodifluoromethane	<0.00085		0.0500	0.0428		mg/L	86	11 - 150	3	24	
1,1-Dichloroethane	<0.00050		0.0500	0.0468		mg/L	94	43 - 150	2	22	
1,2-Dichloroethane	<0.00050		0.0500	0.0457		mg/L	91	64 - 150	2	22	
1,1-Dichloroethene	<0.00050		0.0500	0.0448		mg/L	90	17 - 150	2	27	
1,2-Dichloroethene, cis-	<0.00050		0.0500	0.0486		mg/L	97	55 - 148	0	23	
1,2-Dichloroethene, trans-	<0.00050		0.0500	0.0467		mg/L	93	48 - 136	1	28	
1,2-Dichloropropane	<0.00050		0.0500	0.0488		mg/L	98	64 - 139	1	23	
1,3-Dichloropropane	<0.00050		0.0500	0.0490		mg/L	98	72 - 124	2	22	
2,2-Dichloropropane	<0.00050		0.0500	0.0491		mg/L	98	59 - 119	0	23	
1,1-Dichloropropene			0.0500	0.0455		mg/L					
1,3-Dichloropropene, cis-	<0.00050		0.0500	0.0444		mg/L	89	64 - 119	1	25	
1,3-Dichloropropene, trans-	<0.00050		0.0500	0.0430		mg/L	86	51 - 127	1	25	
Ethylbenzene	<0.00050		0.0500	0.0496		mg/L	99	33 - 138	0	49	
Ethylene Dibromide	<0.00050		0.0500	0.0513		mg/L	103	66 - 126	1	23	
Hexachlorobutadiene	<0.00090		0.0500	0.0496		mg/L	99	10 - 150	0	108	
2-Hexanone			0.200	0.223		mg/L					
Cumene	<0.00053		0.0500	0.0496		mg/L	99	10 - 149	1	61	
Iodomethane			0.0500	0.0423		mg/L					
Isopropyl ether			0.0500	0.0532		mg/L					
Methylene Chloride	0.0013	B	0.0500	0.0490		mg/L	95	50 - 138	3	26	
methyl isobutyl ketone			0.200	0.220		mg/L					
Methyl tert-butyl ether	<0.00074		0.0500	0.0491		mg/L	98	62 - 139	1	24	
m-Xylene & p-Xylene	<0.0016		0.100	0.0981		mg/L	98	28 - 140	0	52	
Naphthalene	<0.0010		0.0500	0.0560		mg/L	112	20 - 146	1	54	
n-Butylbenzene			0.0500	0.0493		mg/L					
n-Propylbenzene	<0.00069		0.0500	0.0499		mg/L	100	10 - 150	1	72	
o-Xylene	<0.0016		0.0500	0.0496		mg/L	99	36 - 136	0	48	
sec-Butylbenzene	<0.00070		0.0500	0.0501		mg/L	100	10 - 147	1	79	
Styrene	<0.0010		0.0500	0.0507		mg/L	101	29 - 136	0	47	
t-Butylbenzene	<0.00063		0.0500	0.0516		mg/L	103	14 - 147	2	69	
1,1,1,2-Tetrachloroethane	<0.00052		0.0500	0.0535		mg/L	107	56 - 125	0	33	
1,1,2,2-Tetrachloroethane	<0.00050		0.0500	0.0555		mg/L	111	52 - 145	1	23	
Tetrachloroethene	<0.00058		0.0500	0.0456		mg/L	91	27 - 145	2	45	
Toluene	<0.00070		0.0500	0.0472		mg/L	94	48 - 131	1	34	
1,2,3-Trichlorobenzene	<0.00070		0.0500	0.0515		mg/L	103	11 - 150	0	57	
1,2,4-Trichlorobenzene	<0.00082		0.0500	0.0502		mg/L	100	10 - 148	0	59	
1,1,1-Trichloroethane	<0.00050		0.0500	0.0508		mg/L	102	58 - 135	0	23	
1,1,2-Trichloroethane	<0.00050		0.0500	0.0507		mg/L	101	71 - 123	2	21	
Trichloroethene	<0.00050		0.0500	0.0463		mg/L	93	49 - 127	1	29	
Trichlorofluoromethane	<0.00052		0.0500	0.0440		mg/L	88	14 - 150	1	25	
1,2,3-Trichloropropane	<0.00086		0.0500	0.0524		mg/L	105	57 - 145	2	38	
1,2,4-Trimethylbenzene	<0.00082		0.0500	0.0503		mg/L	101	13 - 140	0	61	
1,3,5-Trimethylbenzene	<0.00056		0.0500	0.0502		mg/L	100	10 - 150	1	91	
Vinyl acetate			0.100	0.101		mg/L					
Vinyl chloride	<0.00050		0.0500	0.0432		mg/L	86	10 - 150	2	25	

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-65436-B-26 MSD

Matrix: Water

Analysis Batch: 155427

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Xylenes, Total	<0.0016		0.150	0.148		mg/L		98	31 - 139	0	50
Surrogate											
4-Bromofluorobenzene	104			79 - 118							
Dibromofluoromethane	105			79 - 119							
Toluene-d8 (Surr)	100			80 - 120							

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-155206/24-A

Matrix: Solid

Analysis Batch: 155388

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155206

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Acenaphthylene	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Anthracene	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Benzidine	<0.099		0.99	0.099	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
4-Chloro-3-methylphenol	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
4,6-Dinitro-2-methylphenol	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
4-Nitrophenol	<0.11		0.33	0.11	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
4-Bromophenyl phenyl ether	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
4-Chloroaniline	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
4-Chlorophenyl phenyl ether	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
4-Nitroaniline	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
2-Chlorophenol	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
2,4-Dichlorophenol	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
2,6-Dichlorophenol	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
2,4-Dimethylphenol	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
2,4-Dinitrophenol	<0.29		0.99	0.29	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
2-Methylphenol	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
2-Nitrophenol	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Pentachlorophenol	<0.066		0.66	0.066	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Phenol	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
3 & 4 Methylphenol	<0.033		0.66	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
2,4,5-Trichlorophenol	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
2,4,6-Trichlorophenol	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Benzo[a]anthracene	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Benzo[a]pyrene	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Benzo[b]fluoranthene	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Benzo[g,h,i]perylene	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Benzo[k]fluoranthene	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Benzyl alcohol	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Butyl benzyl phthalate	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Bis(2-chloroethoxy)methane	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Bis(2-chloroethyl)ether	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
2,2'-oxybis[1-chloropropane]	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Bis(2-ethylhexyl) phthalate	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1
Chrysene	<0.033		0.33	0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11	1

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-155206/24-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 155388

Prep Batch: 155206

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Dibenzofuran	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Di-n-butyl phthalate	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Di-n-octyl phthalate	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Fluoranthene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Fluorene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Hexachlorobenzene	<0.10		0.33		0.10	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Hexachlorobutadiene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Hexachlorocyclopentadiene	<0.066		0.33		0.066	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Hexachloroethane	<0.10		0.33		0.10	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Indeno[1,2,3-cd]pyrene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Isophorone	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Naphthalene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
N-Nitrosodi-n-butylamine	<0.066		0.33		0.066	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
N-Nitrosodimethylamine	<0.066		0.33		0.066	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
N-Nitrosodiphenylamine	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
N-Nitrosodi-n-propylamine	<0.11		0.33		0.11	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Phenanthrene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Pyrene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
1,2-Dichlorobenzene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
1,3-Dichlorobenzene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
1,4-Dichlorobenzene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
2-Chloronaphthalene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
3,3'-Dichlorobenzidine	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Diethyl phthalate	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Dimethyl phthalate	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
2,4-Dinitrotoluene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
2,6-Dinitrotoluene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
1,2-Diphenylhydrazine	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
1-Methylnaphthalene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
2-Methylnaphthalene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
2-Nitroaniline	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
3-Nitroaniline	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
Nitrobenzene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1
1,2,4-Trichlorobenzene	<0.033		0.33		0.033	mg/Kg		05/22/12 12:09	05/24/12 21:11		1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	77		29 - 118			05/22/12 12:09	05/24/12 21:11	1
2-Fluorophenol	82		30 - 106			05/22/12 12:09	05/24/12 21:11	1
Phenol-d5	87		36 - 101			05/22/12 12:09	05/24/12 21:11	1
2-Fluorobiphenyl	91		40 - 102			05/22/12 12:09	05/24/12 21:11	1
Nitrobenzene-d5	90		34 - 102			05/22/12 12:09	05/24/12 21:11	1
Terphenyl-d14	103		49 - 117			05/22/12 12:09	05/24/12 21:11	1

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-155206/23-A

Matrix: Solid

Analysis Batch: 155388

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
Acenaphthene	1.67	1.42		mg/Kg	85	58 - 107		
Acenaphthylene	1.67	1.76		mg/Kg	105	60 - 109		
Anthracene	1.67	1.69		mg/Kg	101	54 - 124		
4-Chloro-3-methylphenol	1.67	1.76	*	mg/Kg	105	52 - 103		
4,6-Dinitro-2-methylphenol	1.67	0.940		mg/Kg	56	23 - 130		
4-Nitrophenol	1.67	1.72		mg/Kg	103	44 - 110		
4-Bromophenyl phenyl ether	1.67	1.43		mg/Kg	86	50 - 120		
4-Chloroaniline	1.67	1.36		mg/Kg	82	35 - 93		
4-Chlorophenyl phenyl ether	1.67	1.58		mg/Kg	95	57 - 113		
4-Nitroaniline	1.67	1.64		mg/Kg	98	39 - 114		
2-Chlorophenol	1.67	1.52		mg/Kg	91	55 - 98		
2,4-Dichlorophenol	1.67	1.50		mg/Kg	90	55 - 104		
2,4-Dimethylphenol	1.67	1.65		mg/Kg	99	53 - 100		
2,4-Dinitrophenol	1.67	0.967	J	mg/Kg	58	26 - 130		
2-Methylphenol	1.67	1.66		mg/Kg	100	55 - 100		
2-Nitrophenol	1.67	1.47		mg/Kg	88	54 - 99		
Pentachlorophenol	1.67	1.39		mg/Kg	83	19 - 136		
Phenol	1.67	1.54		mg/Kg	92	54 - 101		
3 & 4 Methylphenol	3.33	3.34		mg/Kg	100	52 - 109		
2,4,5-Trichlorophenol	1.67	1.50		mg/Kg	90	56 - 106		
2,4,6-Trichlorophenol	1.67	1.50		mg/Kg	90	56 - 105		
Benzo[a]anthracene	1.67	1.72		mg/Kg	103	64 - 112		
Benzo[a]pyrene	1.67	1.37		mg/Kg	82	52 - 97		
Benzo[b]fluoranthene	1.67	1.32		mg/Kg	79	55 - 110		
Benzo[g,h,i]perylene	1.67	1.29		mg/Kg	77	50 - 124		
Benzo[k]fluoranthene	1.67	1.57		mg/Kg	94	61 - 116		
Benzyl alcohol	1.67	1.64		mg/Kg	99	52 - 106		
Butyl benzyl phthalate	1.67	2.07	*	mg/Kg	124	57 - 119		
Bis(2-chloroethoxy)methane	1.67	1.76	*	mg/Kg	106	52 - 104		
Bis(2-chloroethyl)ether	1.67	1.61		mg/Kg	97	52 - 104		
2,2'-oxybis[1-chloropropane]	1.67	1.55		mg/Kg	93	35 - 118		
Bis(2-ethylhexyl) phthalate	1.67	2.05		mg/Kg	123	56 - 124		
Chrysene	1.67	1.60		mg/Kg	96	62 - 109		
Dibenz(a,h)anthracene	1.67	1.25		mg/Kg	75	52 - 119		
Dibenzofuran	1.67	1.43		mg/Kg	86	58 - 109		
Di-n-butyl phthalate	1.67	1.95		mg/Kg	117	56 - 130		
Di-n-octyl phthalate	1.67	1.99	*	mg/Kg	119	55 - 115		
Fluoranthene	1.67	1.73		mg/Kg	104	58 - 122		
Fluorene	1.67	1.51		mg/Kg	90	59 - 112		
Hexachlorobenzene	1.67	1.40		mg/Kg	84	52 - 124		
Hexachlorobutadiene	1.67	1.31		mg/Kg	78	49 - 108		
Hexachlorocyclopentadiene	1.67	1.07		mg/Kg	64	18 - 150		
Hexachloroethane	1.67	1.41		mg/Kg	85	49 - 98		
Indeno[1,2,3-cd]pyrene	1.67	1.35		mg/Kg	81	53 - 118		
Isophorone	1.67	1.77		mg/Kg	106	54 - 108		
Naphthalene	1.67	1.37		mg/Kg	82	53 - 101		
N-Nitrosodimethylamine	1.67	1.33		mg/Kg	80	36 - 112		
N-Nitrosodiphenylamine	1.67	1.98		mg/Kg	119	44 - 153		
N-Nitrosodi-n-propylamine	1.67	1.79		mg/Kg	107	53 - 122		

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-155206/23-A

Matrix: Solid

Analysis Batch: 155388

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155206

Analyte	Spike	LCS		Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Phenanthrene	1.67	1.64		mg/Kg		98	55 - 121
Pyrene	1.67	1.72		mg/Kg		103	55 - 114
1,2-Dichlorobenzene	1.67	1.39		mg/Kg		83	52 - 98
1,3-Dichlorobenzene	1.67	1.37		mg/Kg		82	50 - 94
1,4-Dichlorobenzene	1.67	1.33		mg/Kg		80	51 - 96
2-Chloronaphthalene	1.67	1.36		mg/Kg		82	50 - 92
3,3'-Dichlorobenzidine	1.67	1.17		mg/Kg		70	44 - 93
Diethyl phthalate	1.67	1.86		mg/Kg		112	64 - 114
Dimethyl phthalate	1.67	1.62		mg/Kg		97	62 - 110
2,4-Dinitrotoluene	1.67	1.69		mg/Kg		101	59 - 111
2,6-Dinitrotoluene	1.67	1.69		mg/Kg		102	62 - 109
1-Methylnaphthalene	1.67	1.64		mg/Kg		99	57 - 106
2-Methylnaphthalene	1.67	1.49		mg/Kg		90	54 - 104
2-Nitroaniline	1.67	1.84		mg/Kg		111	52 - 115
3-Nitroaniline	1.67	1.66		mg/Kg		100	44 - 108
Nitrobenzene	1.67	1.60		mg/Kg		96	48 - 105
1,2,4-Trichlorobenzene	1.67	1.41		mg/Kg		85	53 - 104

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	85		29 - 118
2-Fluorophenol	91		30 - 106
Phenol-d5	95		36 - 101
2-Fluorobiphenyl	94		40 - 102
Nitrobenzene-d5	94		34 - 102
Terphenyl-d14	101		49 - 117

Lab Sample ID: 400-65593-10 MS

Matrix: Solid

Analysis Batch: 155388

Client Sample ID: PB-8/TW3

Prep Type: Total/NA

Prep Batch: 155206

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthene	<0.041		2.10	1.77		mg/Kg	⊗	84	49 - 109
Acenaphthylene	<0.041		2.10	2.06		mg/Kg	⊗	98	52 - 109
Anthracene	<0.041		2.10	1.96		mg/Kg	⊗	93	43 - 124
Benzo[a]anthracene	<0.041		2.10	1.89		mg/Kg	⊗	90	53 - 113
Benzo[a]pyrene	<0.041		2.10	1.56		mg/Kg	⊗	74	37 - 103
Benzo[b]fluoranthene	<0.041		2.10	1.47		mg/Kg	⊗	70	46 - 113
Benzo[g,h,i]perylene	<0.041		2.10	1.47		mg/Kg	⊗	70	29 - 125
Benzo[k]fluoranthene	<0.041		2.10	1.85		mg/Kg	⊗	88	55 - 112
Chrysene	<0.041		2.10	1.78		mg/Kg	⊗	85	51 - 114
Dibenz(a,h)anthracene	<0.041		2.10	1.45		mg/Kg	⊗	69	37 - 118
Fluoranthene	<0.041		2.10	1.95		mg/Kg	⊗	93	39 - 134
Fluorene	<0.041		2.10	1.69		mg/Kg	⊗	81	49 - 114
Indeno[1,2,3-cd]pyrene	<0.041		2.10	1.53		mg/Kg	⊗	73	34 - 119
Naphthalene	<0.041		2.10	1.65		mg/Kg	⊗	78	26 - 115
Phenanthrene	<0.041		2.10	1.94		mg/Kg	⊗	92	35 - 133
Pyrene	<0.041		2.10	1.92		mg/Kg	⊗	91	33 - 130
1-Methylnaphthalene	<0.041		2.10	1.90		mg/Kg	⊗	90	18 - 131
2-Methylnaphthalene	<0.041		2.10	1.77		mg/Kg	⊗	84	10 - 134

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-65593-10 MS

Matrix: Solid

Analysis Batch: 155388

Client Sample ID: PB-8/TW3

Prep Type: Total/NA

Prep Batch: 155206

Surrogate	MS	MS	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol	75				29 - 118
2-Fluorophenol	76				30 - 106
Phenol-d5	82				36 - 101
2-Fluorobiphenyl	88				40 - 102
Nitrobenzene-d5	88				34 - 102
Terphenyl-d14	87				49 - 117

Lab Sample ID: 400-65593-10 MSD

Matrix: Solid

Analysis Batch: 155388

Client Sample ID: PB-8/TW3

Prep Type: Total/NA

Prep Batch: 155206

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Acenaphthene	<0.041		2.10	1.37		mg/Kg	⊗	65	49 - 109	25	29
Acenaphthylene	<0.041		2.10	1.68		mg/Kg	⊗	80	52 - 109	20	33
Anthracene	<0.041		2.10	1.63		mg/Kg	⊗	77	43 - 124	19	29
Benzo[a]anthracene	<0.041		2.10	1.70		mg/Kg	⊗	81	53 - 113	11	34
Benzo[a]pyrene	<0.041		2.10	1.36		mg/Kg	⊗	65	37 - 103	14	43
Benzo[b]fluoranthene	<0.041		2.10	1.26		mg/Kg	⊗	60	46 - 113	15	37
Benzo[g,h,i]perylene	<0.041		2.10	1.31		mg/Kg	⊗	62	29 - 125	12	37
Benzo[k]fluoranthene	<0.041		2.10	1.58		mg/Kg	⊗	75	55 - 112	16	33
Chrysene	<0.041		2.10	1.58		mg/Kg	⊗	75	51 - 114	12	36
Dibenz(a,h)anthracene	<0.041		2.10	1.29		mg/Kg	⊗	62	37 - 118	12	30
Fluoranthene	<0.041		2.10	1.71		mg/Kg	⊗	81	39 - 134	13	41
Fluorene	<0.041		2.10	1.44		mg/Kg	⊗	68	49 - 114	16	29
Indeno[1,2,3-cd]pyrene	<0.041		2.10	1.35		mg/Kg	⊗	64	34 - 119	13	37
Naphthalene	<0.041		2.10	1.34		mg/Kg	⊗	64	26 - 115	21	49
Phenanthrene	<0.041		2.10	1.68		mg/Kg	⊗	80	35 - 133	14	31
Pyrene	<0.041		2.10	1.66		mg/Kg	⊗	79	33 - 130	14	51
1-Methylnaphthalene	<0.041		2.10	1.59		mg/Kg	⊗	76	18 - 131	18	62
2-Methylnaphthalene	<0.041		2.10	1.50		mg/Kg	⊗	72	10 - 134	16	46

Surrogate	MSD	MSD	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol	61				29 - 118
2-Fluorophenol	69				30 - 106
Phenol-d5	72				36 - 101
2-Fluorobiphenyl	73				40 - 102
Nitrobenzene-d5	70				34 - 102
Terphenyl-d14	77				49 - 117

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 400-155117/14-A

Matrix: Solid

Analysis Batch: 155306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155117

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016			<0.0024		0.017	0.0024	mg/Kg		05/21/12 13:32	05/22/12 23:50	1
PCB-1221			<0.0080		0.017	0.0080	mg/Kg		05/21/12 13:32	05/22/12 23:50	1
PCB-1232			<0.011		0.017	0.011	mg/Kg		05/21/12 13:32	05/22/12 23:50	1

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 400-155117/14-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 155306

Prep Batch: 155117

Analyte	MB		RL	MDL	Unit	D	Prepared		Dil Fac
	Result	Qualifier					Prepared	Analyzed	
PCB-1242	<0.0082		0.017	0.0082	mg/Kg		05/21/12 13:32	05/22/12 23:50	1
PCB-1248	<0.0033		0.017	0.0033	mg/Kg		05/21/12 13:32	05/22/12 23:50	1
PCB-1254	<0.0021		0.017	0.0021	mg/Kg		05/21/12 13:32	05/22/12 23:50	1
PCB-1260	<0.0012		0.017	0.0012	mg/Kg		05/21/12 13:32	05/22/12 23:50	1

MB MB

Surrogate	%Recovery		Qualifier	Limits	Prepared		Dil Fac
	%Recovery	Qualifier			Prepared	Analyzed	
DCB Decachlorobiphenyl	90			30 - 150	05/21/12 13:32	05/22/12 23:50	1
Tetrachloro-m-xylene	108			43 - 142	05/21/12 13:32	05/22/12 23:50	1

Lab Sample ID: LCS 400-155117/13-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 155306

Prep Batch: 155117

Analyte	Spike		Result	LCS Qualifier	Unit	D	%Rec.	
	Added	Result					%Rec.	Limits
PCB-1016		0.333	0.396		mg/Kg		119	57 - 135
PCB-1260		0.333	0.354		mg/Kg		106	61 - 138

LCS LCS

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	104		30 - 150
Tetrachloro-m-xylene	123		43 - 142

Lab Sample ID: 400-65501-B-1-H MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 155306

Prep Batch: 155117

Analyte	Sample		Spike	MS		Unit	D	%Rec.	
	Result	Qualifier		Added	Result			%Rec.	Limits
PCB-1016	<0.0027		0.372	0.387		mg/Kg	⊗	104	15 - 150
PCB-1260	<0.0013		0.372	0.377		mg/Kg	⊗	101	21 - 150

MS MS

Surrogate	MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	99		30 - 150
Tetrachloro-m-xylene	107		43 - 142

Lab Sample ID: 400-65501-B-1-I MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 155306

Prep Batch: 155117

Analyte	Sample		Spike	MSD		Unit	D	%Rec.	
	Result	Qualifier		Added	Result			%Rec.	RPD
PCB-1016	<0.0027		0.375	0.373		mg/Kg	⊗	99	15 - 150
PCB-1260	<0.0013		0.375	0.356		mg/Kg	⊗	95	21 - 150

MSD MSD

Surrogate	MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	93		30 - 150
Tetrachloro-m-xylene	99		43 - 142

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 6010B - Metals (ICP)
Lab Sample ID: MB 400-155157/1-A**Matrix: Solid****Analysis Batch: 155339****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 155157**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Silver	<0.0020		0.0050	0.0020	mg/Kg		05/21/12 18:23	05/23/12 20:25	1
Arsenic	<0.0040		0.0050	0.0040	mg/Kg		05/21/12 18:23	05/23/12 20:25	1
Barium	<0.0020		0.010	0.0020	mg/Kg		05/21/12 18:23	05/23/12 20:25	1
Cadmium	<0.0010		0.0050	0.0010	mg/Kg		05/21/12 18:23	05/23/12 20:25	1
Chromium	<0.0020		0.0050	0.0020	mg/Kg		05/21/12 18:23	05/23/12 20:25	1
Lead	<0.0020		0.0050	0.0020	mg/Kg		05/21/12 18:23	05/23/12 20:25	1
Selenium	<0.0040		0.010	0.0040	mg/Kg		05/21/12 18:23	05/23/12 20:25	1

Lab Sample ID: LCS 400-155157/2-A**Matrix: Solid****Analysis Batch: 155420****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 155157**

Analyte	Sample	Sample	Spike	LCS	LCS	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier				
Silver			55.2	52.6		mg/Kg	95	66 - 134	
Arsenic			137	122		mg/Kg	89	83 - 118	
Barium			290	282		mg/Kg	97	83 - 118	
Cadmium			85.0	72.7		mg/Kg	85	84 - 116	
Chromium			168	150		mg/Kg	90	82 - 118	
Lead			120	118		mg/Kg	98	83 - 117	
Selenium			43.5	38.2		mg/Kg	88	78 - 122	

Lab Sample ID: 400-65593-12 MS**Matrix: Solid****Analysis Batch: 155339****Client Sample ID: PB-13****Prep Type: Total/NA****Prep Batch: 155157**

Analyte	Sample	Sample	Spike	MS	MS	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier				
Silver	<0.24		61.0	56.4		mg/Kg	⊗	93	75 - 125
Arsenic	3.3		122	104		mg/Kg	⊗	82	75 - 125
Barium	16		122	143		mg/Kg	⊗	104	75 - 125
Cadmium	<0.12		61.0	53.4		mg/Kg	⊗	88	75 - 125
Chromium	11		122	135		mg/Kg	⊗	101	75 - 125
Lead	6.2		122	131		mg/Kg	⊗	103	75 - 125
Selenium	<0.47		122	96.7		mg/Kg	⊗	79	75 - 125

Lab Sample ID: 400-65593-12 MSD**Matrix: Solid****Analysis Batch: 155339****Client Sample ID: PB-13****Prep Type: Total/NA****Prep Batch: 155157**

Analyte	Sample	Sample	Spike	MSD	MSD	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier					
Silver	<0.24		59.1	56.8		mg/Kg	⊗	96	75 - 125	1 20
Arsenic	3.3		118	105		mg/Kg	⊗	86	75 - 125	1 20
Barium	16		118	145		mg/Kg	⊗	109	75 - 125	1 20
Cadmium	<0.12		59.1	54.1		mg/Kg	⊗	91	75 - 125	1 20
Chromium	11		118	137		mg/Kg	⊗	107	75 - 125	2 20
Lead	6.2		118	132		mg/Kg	⊗	107	75 - 125	1 20
Selenium	<0.47		118	98.1		mg/Kg	⊗	83	75 - 125	1 20

QC Sample Results

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 400-155188/14-A

Matrix: Solid

Analysis Batch: 155228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155188

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.00520	J	0.0083	0.0029	mg/Kg		05/22/12 09:50	05/22/12 14:38	1

Lab Sample ID: LCS 400-155188/15-A ^10

Matrix: Solid

Analysis Batch: 155228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155188

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits	Dil Fac
	Added	Result	Qualifier					
Mercury		7.69	8.36	mg/Kg		109	80 - 120	

Lab Sample ID: 400-65576-A-1-F MS

Matrix: Solid

Analysis Batch: 155228

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 155188

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits	Dil Fac
	Result	Qualifier	Added	Result	Qualifier					
Mercury	0.22	B	0.148	0.451	F	mg/Kg	⊗	157	75 - 125	

Lab Sample ID: 400-65576-A-1-G MSD

Matrix: Solid

Analysis Batch: 155228

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 155188

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Mercury	0.22	B	0.147	0.367	F	mg/Kg	⊗	102	75 - 125	21	20

Lab Sample ID: MB 400-155350/14-A

Matrix: Solid

Analysis Batch: 155398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155350

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.0029		0.0083	0.0029	mg/Kg		05/24/12 07:45	05/24/12 10:53	1

Lab Sample ID: LCS 400-155350/15-A ^10

Matrix: Solid

Analysis Batch: 155398

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155350

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits	Dil Fac
	Added	Result	Qualifier					
Mercury		7.69	7.12	mg/Kg		93	80 - 120	

QC Association Summary

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

GC/MS VOA

Analysis Batch: 155246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65593-20	TRIP BLANK	Total/NA	Water	8260B	
LCS 400-155246/9	Lab Control Sample	Total/NA	Water	8260B	
MB 400-155246/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 155427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65436-B-26 MS	Matrix Spike	Total/NA	Water	8260B	
400-65436-B-26 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 400-155427/5	Lab Control Sample	Total/NA	Water	8260B	
MB 400-155427/4	Method Blank	Total/NA	Water	8260B	

Prep Batch: 155536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65593-1	PB-12/TW5	Total/NA	Solid	5035	
400-65593-2	PB-9/TW4	Total/NA	Solid	5035	
400-65593-3	PB-10	Total/NA	Solid	5035	
400-65593-4	PB-2	Total/NA	Solid	5035	
400-65593-5	PB-1/TW1	Total/NA	Solid	5035	
400-65593-6	PB-3/TW2	Total/NA	Solid	5035	
400-65593-7	PB-5	Total/NA	Solid	5035	
400-65593-8	PB-4/TW10	Total/NA	Solid	5035	
400-65593-9	DUP	Total/NA	Solid	5035	
400-65593-10	PB-8/TW3	Total/NA	Solid	5035	
400-65593-11	PB-7	Total/NA	Solid	5035	
400-65593-12	PB-13	Total/NA	Solid	5035	
400-65593-13	PB-16	Total/NA	Solid	5035	
400-65593-14	PB-14	Total/NA	Solid	5035	
400-65593-15	PB-15	Total/NA	Solid	5035	
400-65593-19	PB-11	Total/NA	Solid	5035	
LCS 400-155536/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 400-155536/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 400-155536/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 155550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65593-1	PB-12/TW5	Total/NA	Solid	8260B	155536
400-65593-2	PB-9/TW4	Total/NA	Solid	8260B	155536
400-65593-3	PB-10	Total/NA	Solid	8260B	155536
400-65593-4	PB-2	Total/NA	Solid	8260B	155536
400-65593-5	PB-1/TW1	Total/NA	Solid	8260B	155536
400-65593-6	PB-3/TW2	Total/NA	Solid	8260B	155536
400-65593-7	PB-5	Total/NA	Solid	8260B	155536
400-65593-8	PB-4/TW10	Total/NA	Solid	8260B	155536
400-65593-9	DUP	Total/NA	Solid	8260B	155536
400-65593-10	PB-8/TW3	Total/NA	Solid	8260B	155536
400-65593-11	PB-7	Total/NA	Solid	8260B	155536
400-65593-12	PB-13	Total/NA	Solid	8260B	155536
400-65593-13	PB-16	Total/NA	Solid	8260B	155536
400-65593-14	PB-14	Total/NA	Solid	8260B	155536
400-65593-15	PB-15	Total/NA	Solid	8260B	155536
400-65593-19	PB-11	Total/NA	Solid	8260B	155536
LCS 400-155536/2-A	Lab Control Sample	Total/NA	Solid	8260B	155536

QC Association Summary

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

GC/MS VOA (Continued)

Analysis Batch: 155550 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-155536/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B	155536
MB 400-155536/1-A	Method Blank	Total/NA	Solid	8260B	155536

GC/MS Semi VOA

Prep Batch: 155206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65593-1	PB-12/TW5	Total/NA	Solid	3550B	8
400-65593-2	PB-9/TW4	Total/NA	Solid	3550B	9
400-65593-3	PB-10	Total/NA	Solid	3550B	10
400-65593-4	PB-2	Total/NA	Solid	3550B	11
400-65593-5	PB-1/TW1	Total/NA	Solid	3550B	12
400-65593-6	PB-3/TW2	Total/NA	Solid	3550B	13
400-65593-7	PB-5	Total/NA	Solid	3550B	14
400-65593-8	PB-4/TW10	Total/NA	Solid	3550B	15
400-65593-10	PB-8/TW3	Total/NA	Solid	3550B	
400-65593-10 MS	PB-8/TW3	Total/NA	Solid	3550B	
400-65593-10 MSD	PB-8/TW3	Total/NA	Solid	3550B	
400-65593-11	PB-7	Total/NA	Solid	3550B	
400-65593-12	PB-13	Total/NA	Solid	3550B	
400-65593-13	PB-16	Total/NA	Solid	3550B	
400-65593-14	PB-14	Total/NA	Solid	3550B	
400-65593-15	PB-15	Total/NA	Solid	3550B	
400-65593-16	PB-17/TW7	Total/NA	Solid	3550B	
400-65593-17	PB-18/TW8	Total/NA	Solid	3550B	
400-65593-18	PB-19/TW9	Total/NA	Solid	3550B	
400-65593-19	PB-11	Total/NA	Solid	3550B	
LCS 400-155206/23-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 400-155206/24-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 155388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65593-1	PB-12/TW5	Total/NA	Solid	8270C	155206
400-65593-2	PB-9/TW4	Total/NA	Solid	8270C	155206
400-65593-3	PB-10	Total/NA	Solid	8270C	155206
400-65593-4	PB-2	Total/NA	Solid	8270C	155206
400-65593-10	PB-8/TW3	Total/NA	Solid	8270C	155206
400-65593-10 MS	PB-8/TW3	Total/NA	Solid	8270C	155206
400-65593-10 MSD	PB-8/TW3	Total/NA	Solid	8270C	155206
LCS 400-155206/23-A	Lab Control Sample	Total/NA	Solid	8270C	155206
MB 400-155206/24-A	Method Blank	Total/NA	Solid	8270C	155206

Analysis Batch: 155486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65593-5	PB-1/TW1	Total/NA	Solid	8270C	155206
400-65593-6	PB-3/TW2	Total/NA	Solid	8270C	155206
400-65593-7	PB-5	Total/NA	Solid	8270C	155206
400-65593-8	PB-4/TW10	Total/NA	Solid	8270C	155206
400-65593-11	PB-7	Total/NA	Solid	8270C	155206
400-65593-12	PB-13	Total/NA	Solid	8270C	155206
400-65593-13	PB-16	Total/NA	Solid	8270C	155206
400-65593-14	PB-14	Total/NA	Solid	8270C	155206

QC Association Summary

Client: CERM
Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

GC/MS Semi VOA (Continued)

Analysis Batch: 155486 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65593-15	PB-15	Total/NA	Solid	8270C	155206
400-65593-16	PB-17/TW7	Total/NA	Solid	8270C	155206
400-65593-17	PB-18/TW8	Total/NA	Solid	8270C	155206
400-65593-18	PB-19/TW9	Total/NA	Solid	8270C	155206
400-65593-19	PB-11	Total/NA	Solid	8270C	155206

GC Semi VOA

Prep Batch: 155117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65501-B-1-H MS	Matrix Spike	Total/NA	Solid	3550C	10
400-65501-B-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	10
400-65593-16	PB-17/TW7	Total/NA	Solid	3550C	11
400-65593-17	PB-18/TW8	Total/NA	Solid	3550C	11
400-65593-18	PB-19/TW9	Total/NA	Solid	3550C	11
LCS 400-155117/13-A	Lab Control Sample	Total/NA	Solid	3550C	12
MB 400-155117/14-A	Method Blank	Total/NA	Solid	3550C	12

Analysis Batch: 155306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65501-B-1-H MS	Matrix Spike	Total/NA	Solid	8082A	155117
400-65501-B-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8082A	155117
400-65593-16	PB-17/TW7	Total/NA	Solid	8082A	155117
400-65593-17	PB-18/TW8	Total/NA	Solid	8082A	155117
400-65593-18	PB-19/TW9	Total/NA	Solid	8082A	155117
LCS 400-155117/13-A	Lab Control Sample	Total/NA	Solid	8082A	155117
MB 400-155117/14-A	Method Blank	Total/NA	Solid	8082A	155117

Metals

Prep Batch: 155157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65593-12	PB-13	Total/NA	Solid	3050B	
400-65593-12 MS	PB-13	Total/NA	Solid	3050B	
400-65593-12 MSD	PB-13	Total/NA	Solid	3050B	
400-65593-13	PB-16	Total/NA	Solid	3050B	
400-65593-14	PB-14	Total/NA	Solid	3050B	
400-65593-15	PB-15	Total/NA	Solid	3050B	
400-65593-16	PB-17/TW7	Total/NA	Solid	3050B	
400-65593-17	PB-18/TW8	Total/NA	Solid	3050B	
400-65593-18	PB-19/TW9	Total/NA	Solid	3050B	
LCS 400-155157/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 400-155157/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 155188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65576-A-1-F MS	Matrix Spike	Total/NA	Solid	7471A	
400-65576-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
400-65593-16	PB-17/TW7	Total/NA	Solid	7471A	
400-65593-17	PB-18/TW8	Total/NA	Solid	7471A	
400-65593-18	PB-19/TW9	Total/NA	Solid	7471A	
LCS 400-155188/15-A ^10	Lab Control Sample	Total/NA	Solid	7471A	

QC Association Summary

Client: CERM
Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Metals (Continued)

Prep Batch: 155188 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-155188/14-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 155228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65576-A-1-F MS	Matrix Spike	Total/NA	Solid	7471A	155188
400-65576-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	155188
400-65593-16	PB-17/TW7	Total/NA	Solid	7471A	155188
400-65593-17	PB-18/TW8	Total/NA	Solid	7471A	155188
400-65593-18	PB-19/TW9	Total/NA	Solid	7471A	155188
LCS 400-155188/15-A ^10	Lab Control Sample	Total/NA	Solid	7471A	155188
MB 400-155188/14-A	Method Blank	Total/NA	Solid	7471A	155188

Analysis Batch: 155339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65593-12	PB-13	Total/NA	Solid	6010B	155157
400-65593-12 MS	PB-13	Total/NA	Solid	6010B	155157
400-65593-12 MSD	PB-13	Total/NA	Solid	6010B	155157
400-65593-13	PB-16	Total/NA	Solid	6010B	155157
400-65593-14	PB-14	Total/NA	Solid	6010B	155157
400-65593-15	PB-15	Total/NA	Solid	6010B	155157
400-65593-16	PB-17/TW7	Total/NA	Solid	6010B	155157
400-65593-17	PB-18/TW8	Total/NA	Solid	6010B	155157
400-65593-18	PB-19/TW9	Total/NA	Solid	6010B	155157
MB 400-155157/1-A	Method Blank	Total/NA	Solid	6010B	155157

Prep Batch: 155350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65593-12	PB-13	Total/NA	Solid	7471A	
400-65593-13	PB-16	Total/NA	Solid	7471A	
400-65593-14	PB-14	Total/NA	Solid	7471A	
400-65593-15	PB-15	Total/NA	Solid	7471A	
LCS 400-155350/15-A ^10	Lab Control Sample	Total/NA	Solid	7471A	
MB 400-155350/14-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 155398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65593-12	PB-13	Total/NA	Solid	7471A	155350
400-65593-13	PB-16	Total/NA	Solid	7471A	155350
400-65593-14	PB-14	Total/NA	Solid	7471A	155350
400-65593-15	PB-15	Total/NA	Solid	7471A	155350
LCS 400-155350/15-A ^10	Lab Control Sample	Total/NA	Solid	7471A	155350
MB 400-155350/14-A	Method Blank	Total/NA	Solid	7471A	155350

Analysis Batch: 155420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-155157/2-A	Lab Control Sample	Total/NA	Solid	6010B	155157

General Chemistry

Analysis Batch: 155120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65593-1	PB-12/TW5	Total/NA	Solid	Moisture	

QC Association Summary

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

General Chemistry (Continued)

Analysis Batch: 155120 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-65593-2	PB-9/TW4	Total/NA	Solid	Moisture	1
400-65593-3	PB-10	Total/NA	Solid	Moisture	2
400-65593-4	PB-2	Total/NA	Solid	Moisture	3
400-65593-5	PB-1/TW1	Total/NA	Solid	Moisture	4
400-65593-6	PB-3/TW2	Total/NA	Solid	Moisture	5
400-65593-7	PB-5	Total/NA	Solid	Moisture	6
400-65593-8	PB-4/TW10	Total/NA	Solid	Moisture	7
400-65593-9	DUP	Total/NA	Solid	Moisture	8
400-65593-10	PB-8/TW3	Total/NA	Solid	Moisture	9
400-65593-11	PB-7	Total/NA	Solid	Moisture	10
400-65593-12	PB-13	Total/NA	Solid	Moisture	11
400-65593-13	PB-16	Total/NA	Solid	Moisture	12
400-65593-14	PB-14	Total/NA	Solid	Moisture	13
400-65593-15	PB-15	Total/NA	Solid	Moisture	14
400-65593-16	PB-17/TW7	Total/NA	Solid	Moisture	15
400-65593-17	PB-18/TW8	Total/NA	Solid	Moisture	
400-65593-18	PB-19/TW9	Total/NA	Solid	Moisture	
400-65593-19	PB-11	Total/NA	Solid	Moisture	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514

Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericaainc.com

QUOTE NO.

BOTTLE ORDER NO.

ORDER LOG IN NO.

C

CLIENT

CERM

PROJECT NAME

KM BRG

PROJECT NO.

1096

ADDRESS

1096 Henderson M. II Rd

CLIENT PROJECT MANAGER

John Wright

CONTRACT / P.O. NO.

SAMPLED BY

Johnnie Jackson

CLIENT E-MAIL OR FAX

678-999-0173

JWright@cerm.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL NORMAL - 10 BUSINESS DAYS

1 DAY 2 DAYS 3 DAYS 5 DAYS 20 DAYS (Package) OTHER:

SAMPLE DISPOSAL: RETURN TO CLIENT DISPOSAL BY LAB

SEE CONTRACT OTHER:

SAMPLE

SAMPLE IDENTIFICATION

DATE

TIME

10/18/12 8:40 AM

PB-12/Tw5

9:00

PB-9/Tw4

9:20

PB-10

9:55

PB-2

10:10

PB-1/Tw1

10:30

PB-3/Tw2

10:55

PB-5

11:25

PB-4/Tw5

DUP E

RELINQUISHED BY: (SIGNATURE)

Johnnie Jackson

DATE

10/18/12

TIME

12:00 PM

RECEIVED BY: (SIGNATURE)

Johnnie Jackson

DATE

10/18/12

TIME

12:00 PM

REMARKS

✓

LAB USE ONLY

CONTAINER

DATE

10/18/12

TIME

12:00 PM

CUSTODY/INACT

CUSTODY/SEAL NO.

△ YES NO

EMPTY CONTAINERS

DATE

10/18/12

TIME

12:00 PM

DATE

10/18/12

TIME

Login Sample Receipt Checklist

Client: CERM

Job Number: 400-65593-1

Login Number: 65593

List Source: TestAmerica Pensacola

List Number: 1

Creator: Crawford, Lauren E

Question	Answer	Comment	
Radioactivity either was not measured or, if measured, is at or below background	N/A		1
The cooler's custody seal, if present, is intact.	True		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True	0.5°C, 1.3°C	6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the sample IDs on the containers and the COC.	False	PB-4 has an extra 8 oz. jar.	11
Samples are received within Holding Time.	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
Sample collection date/times are provided.	True		15
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

Certification Summary

Client: CERM

Project/Site: KMBRC - AL

TestAmerica Job ID: 400-65593-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Pensacola	Alabama	State Program	4	40150
TestAmerica Pensacola	Arizona	State Program	9	AZ0710
TestAmerica Pensacola	Arkansas DEQ	State Program	6	88-0689
TestAmerica Pensacola	Florida	NELAC	4	E81010
TestAmerica Pensacola	Georgia	State Program	4	N/A
TestAmerica Pensacola	Illinois	NELAC	5	200041
TestAmerica Pensacola	Iowa	State Program	7	367
TestAmerica Pensacola	Kansas	NELAC	7	E-10253
TestAmerica Pensacola	Kentucky (UST)	State Program	4	53
TestAmerica Pensacola	Louisiana	NELAC	6	30976
TestAmerica Pensacola	Maryland	State Program	3	233
TestAmerica Pensacola	Massachusetts	State Program	1	M-FL094
TestAmerica Pensacola	Michigan	State Program	5	9912
TestAmerica Pensacola	New Hampshire	NELAC	1	2505
TestAmerica Pensacola	New Jersey	NELAC	2	FL006
TestAmerica Pensacola	North Carolina DENR	State Program	4	314
TestAmerica Pensacola	Oklahoma	State Program	6	9810
TestAmerica Pensacola	Pennsylvania	NELAC	3	68-00467
TestAmerica Pensacola	Rhode Island	State Program	1	LAO00307
TestAmerica Pensacola	South Carolina	State Program	4	96026
TestAmerica Pensacola	Tennessee	State Program	4	TN02907
TestAmerica Pensacola	Texas	NELAC	6	T104704286-12-4
TestAmerica Pensacola	USDA	Federal		P330-10-00407
TestAmerica Pensacola	Virginia	NELAC	3	460166
TestAmerica Pensacola	Washington	State Program	10	C915
TestAmerica Pensacola	West Virginia DEP	State Program	3	136

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

APPENDIX G – GPR SURVEY

PENSACOLA TESTING LABORATORIES, INC.217 East Brent Lane, Pensacola, FL 32503
PHONE (850)477-5100 FAX (850) 477-1310

Job No.	Client No.	PO No.	Report No.	Date	Page
--	--	Verbal	87185-1	5/18/2012	1 of 1

REPORT OF: Ground Penetrating Radar Utility Surveys

For: CERM
308 st. Louis Street
Mobile AL 36602
Attn: John Wright
Project: 1451 Government street, Mobile, AL.

Dates of Service: May 14, 2012**Technician:** RRC Jr.**Scan Area :** Proposed boring location

As requested, a technician was at the referenced project to conduct ground penetrating radar surveys in areas designated by the client. Surveys were performed in four locations, with a Noggin 250 ground penetrating radar system, in an effort to locate anomalies which may be associated with underground storage tanks. Data from the scanned areas were reviewed and object locations were marked on the ground using white spray paint. Detected anomalies were also marked on the drawing provided by the client. Attached.

In this particular application, ground penetrating radar is intended for, and limited to, determining the presence of buried utility lines. Buried objects below a depth of six feet, in areas of high moisture or in areas congested with roots, may not be detectable with this equipment.

Reports To: CERM**Reviewed By:**
By: _____

